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FORTY-SECOND ANNUAL REPORT OF THE WESTERN WHEAT QUALITY LABORATORY 1989 CROP¹

**Quality Characteristics of Cultivars and
New Germplasm of Wheat Bred and Grown in
the Western United States²**

Abridged

United States Department of Agriculture
Agricultural Research Service
and
Agricultural Experiment Stations
of the United States

WRU No. 5802-20050-010

C.F. Morris, H.C. Jeffers, A.D. Bettge, D.A. Engle,
M.L. Baldrige, B.S. Patterson and R.L. Ader³

December 1989

¹This is a Progress Report of cooperative investigations of the milling and baking characteristics of current commercial cultivars and new germplasm of wheat grown in the Western United States. Interpretation of the data may be changed with further experimentation; therefore, data in this report are not for publication, display, or distribution without prior written approval of the Agricultural Research Service, USDA and the cooperating agencies concerned.

²In cooperation with the Arizona, California, Idaho, Montana, Oregon, Utah, and Washington Agricultural Experiment Stations who developed and grew the experimental wheat selections studied.

³Research Chemist (Director, WWQL), Food Technologist, Physical Science Technician, Physical Science Technician, Biological Technician, Biological Technician, and Secretary, respectively, U.S. Department of Agriculture, Agricultural Research Service, assigned to the Western Wheat Quality Laboratory, Wheat Genetics, Quality, Physiology and Disease Unit, Pullman, Washington. Credit is due Garrison King, Washington State University Laboratory Technician II, for the flour milling and physical-chemical determinations made on early generation material. This work was supported by grant funds from the Washington Wheat Commission/Washington State Department of Agriculture. The technical assistance of Barbara C. Davis, WSU Lab. Tech. I, is gratefully acknowledged.

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New Germplasm of Wheat Bred and Grown in
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DESCRIPTION OF ABBREVIATIONS

A computer program stores, calculates, retrieves, and tabulates the milling and baking data contained in this report. The following is a list of abbreviations used as column headings in the tables of data. Refer also to the Methods and References sections in the 1988 report for more detailed explanations of data generation.

BABS	Bake water absorption (percent by weight, corrected to 14% moisture basis)
BABSC	Bake water absorption corrected (BABS corrected to the mean protein of the nursery)
BCRGR	Bread crumb grain rating code (see Table 1, page 3)
CAVOL	Japanese sponge cake volume (cc)
CODI	Cookie diameter (cm)
CODIC	Cookie diameter corrected (CODI corrected to the mean protein of the nursery--see Table 2 or 3, pages 3 and 4)
FABS	Farinograph water absorption (percent by weight, corrected to 14% moisture basis)
FABSC	Farinograph water absorption corrected (FABS corrected to mean protein of the nursery)
FASH	Flour ash (percent by weight, corrected to 14% moisture basis)
FMIST	Flour moisture (percent by weight)
FPEAK	Farinograph mixing peak time (minutes)
FPROT	Flour protein (percent by weight, corrected to 14% moisture basis)
FSTAB	Farinograph stability time (minutes)
FYELD	Flour yield (percent flour by weight of grain)
IDNO	CI, PI or selection identification number
LABNUM	Laboratory number (first two digits indicate the crop year)
LVOL	Bread loaf volume (cc)
LVOLC	Bread loaf volume corrected (LVOL corrected to the mean protein of the nursery--see Table 2 or 3, pages 3 and 4)
MABS	Mixograph absorption (percent by weight, corrected to 14% moisture basis)
MABSC	Mixograph absorption corrected (MABS corrected to the mean protein of the nursery)
MSCOR	Milling score (see Methods)
MTIME	Optimum bread dough mixing time
MTYPE	Mixograph type (see Mixograph Reference Chart, pages 12 and 13)
NOSCO	Noodle score (scale 1-100, see Methods)
NURSCO	Nursery code number (located in the upper left corner of the tables)
NYELD	Noodle yield (weighted score assigned to WTIN)
RMKS	Remarks (P=poor, Q=questionable)
SCSOR	Sponge cake score (scale 1-100, see Methods)
TWT	Test weight (lbs/bu, after scouring and cleaning)
VISC	Brookfield viscosity (observed x 7.5 for a predicted McMichael Viscosity)
VISCC	Brookfield viscosity corrected (VISC corrected to the mean protein of the nursery)

WDSI	Wheat Cibacron blue dye test for alpha-amylase
WFN	Wheat Falling Number test for alpha-amylase
WMIST	Wheat moisture (percent by weight)
WPROT	Wheat protein (percent by weight, corrected to 14% moisture basis)
WTIN	Noodle weight increase (percent water uptake after cooking)

Table 1. Code, meaning and abbreviation for bread crumb grain rating code (BCRGR).

<u>CODE</u>	<u>MEANING</u>	<u>ABBREVIATION</u>
1	Excellent	(S*)
2	Satisfactory	(S)
3	(Intermediate)	(Ø-S)
4	Questionable-Satisfactory	(Q-S)
5	(Intermediate)	(Q-Ø)
6	Questionable	(Q)
7	(Intermediate)	(Q-Ø)
8	Questionable-Unsatisfactory	(Ø-U)
9	Unsatisfactory	(U)

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WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

PAGE 1

NURSCO	NURSERY NAME	LOCATION	BREEDER	SNUM	SNUM RANGE
1	CALIFORNIA COMMON WHEAT TEST	BUTTE CO., CA	L.F. JACKSON	47	1 -47
2	HW - ST. JOHNS	ST. JOHN, WA	.	2	48 -49
3	TRITICALE QUALITY TEST	PULLMAN, WA	C.J. PETERSON	55	50 -104
4	HW QUALITY TEST	PULLMAN, WA	C.J. PETERSON	54	105 -158
5	FOREIGN WHEAT YIELD TRIAL	PULLMAN, WA	C.J. PETERSON	60	159 -218
6	WHITE WINTER WHEAT QUALITY	IRRIGON, OR	M.F. KOLDING	10	219 -228
7	RED WINTER WHEAT QUALITY	BOARDMAN, OR	M.F. KOLDING	5	229 -233
8	SPROUTING STUDY	PULLMAN, WA	.	30	234 -263
9	PRELIMINARY HARD RED SPRING	PULLMAN, WA	C.F. KONZAK	34	264 -297
10	ADVANCED HARD RED SPRING	LIND, WA	C.F. KONZAK	22	298 -319
11	STATE HARD RED SPRING	CONNELL, WA	C.F. KONZAK	23	320 -342
12	PNWGC CROP QUALITY SURVEY	.	.	19	343 -361
13	STATE SOFT WHITE SPRING	PULLMAN, WA	C.F. KONZAK	21	362 -382
14	ADVANCED SOFT WHITE SPRING	PULLMAN, WA	C.F. KONZAK	22	383 -404
15	PRELIMINARY SOFT WHITE SPRING	PULLMAN, WA	C.F. KONZAK	30	405 -434
16	PRELIMINARY HARD WHITE SPRING	PULLMAN, WA	C.F. KONZAK	11	435 -445
17	DUAL PURPOSE	LIND, WA	C.F. KONZAK	48	446 -493
18	WINTER WHEAT 910	PENDLETON, OR	P.K. ZWER	28	494 -521
19	ADVANCED CLUB YIELD TRIAL (911)	PENDLETON, OR	P.K. ZWER	18	522 -539
20	ADVANCED PRELIMINARY CLUB (912)	PENDLETON, OR	P.K. ZWER	25	540 -564
21	SPRING WHEAT YIELD TRIAL (918)	PENDLETON, OR	P.K. ZWER	26	565 -590
22	SPRING CLUB YIELD TRIAL (919)	PENDLETON, OR	P.K. ZWER	12	591 -602
23	WINTER WHEAT YIELD TRIAL (922)	MORO, OR	P.K. ZWER	27	603 -629
24	CLUB WHEAT YIELD TRIAL (923)	MORO, OR	P.K. ZWER	18	630 -647
25	SPRING WHEAT YIELD TRIAL (951)	MORO, OR	P.K. ZWER	26	648 -673
26	PRELIMINARY CLUB YIELD TRIAL #1 (913)	PENDLETON, OR	P.K. ZWER	27	674 -700
27	PRELIMINARY CLUB YIELD TRIAL #2 (914)	PENDLETON, OR	P.K. ZWER	14	701 -714
28	PRELIMINARY CLUB YIELD TRIAL #3 (915)	PENDLETON, OR	P.K. ZWER	22	715 -736
29	PRELIMINARY CLUB YIELD TRIAL #4 (916)	PENDLETON, OR	P.K. ZWER	21	737 -757
30	HRW WHEAT QUALITY COUNCIL COLLABORATIVE	KANSAS	.	11	758 -768
31	ADVANCED PRELIMINARY CLUB YT (924)	MORO, OR	P.K. ZWER	25	769 -793
32	PRELIMINARY CLUB YT #2 (056)	PENDLETON, OR	P.K. ZWER	29	794 -822
33	PRELIMINARY CLUB TY #1 (054)	PENDLETON, OR	P.K. ZWER	28	823 -850
34	PLANT BREEDERS I	CULDESAC, ID	W.L. MCPROUD	40	851 -890
35	TRI-STATE HRS QUALITY	LIND, WA	C.F. KONZAK	21	891 -911
36	TRI-STATE SWS QUALITY	PULLMAN, WA	C.F. KONZAK	21	912 -932
37	COMMERCIAL SWS	PULLMAN, WA	C.F. KONZAK	17	933 -949
38	COMMERCIAL HRS	LIND, WA	C.F. KONZAK	22	950 -971
39	SWS QUALITY	POMEROY, WA	C.J. PETERSON	120	972 -1091
40	ADVANCED CLUBS	WALLA WALLA, WA	R.E. ALLAN	30	1092-1121

NURSCO	NURSERY NAME	LOCATION	BREEDER	SNUM	SNUM RANGE
41	MILLING AND BAKING	BOARDMAN, OR	M.F. KOLDING	7	1122-1128
42	MILLING AND BAKING	ONTARIO, OR	M.F. KOLDING	12	1129-1140
43	WINTER TRITICALE	BOARDMAN, OR	M.F. KOLDING	5	1141-1145
44	HWY PRELIMINARY YIELD TRIAL	CORVALLIS, OR	W.E. KRONSTAD	9	1146-1154
45	SWW PRELIMINARY YIELD TRIAL	CORVALLIS, OR	W.E. KRONSTAD	66	1155-1220
46	HWY PRELIMINARY YIELD TRIAL	PENDLETON, OR	W.E. KRONSTAD	28	1221-1248
47	SWW PRELIMINARY YIELD TRIAL	PENDLETON, OR	W.E. KRONSTAD	55	1249-1303
48	SOFT WHITE ADVANCED & REPLICATED TRIAL	PENDLETON, OR	W.E. KRONSTAD	57	1304-1360
49	SEED PURIFICATION/INCREASE (900)	DAVIS, CA	C.O. QUALSET	31	1361-1391
50	WINTER/SPRING ISOLINE YT (9004)	DAVIS, CA	C.O. QUALSET	13	1392-1404
51	WINTER/SPRING ISOLINE YT (9005)	DAVIS, CA	C.O. QUALSET	13	1405-1417
52	ADVANCED PASTRY WHITE WHEAT (9012)	DAVIS, CA	C.O. QUALSET	16	1418-1433
53	ADVANCED BREAD WHITE WHEAT (9012)	DAVIS, CA	C.O. QUALSET	16	1434-1449
54	USWA XIII	.	.	55	1450-1504
55	WINTER/SPRING ISOLINE YT (9003)	DAVIS, CA	C.O. QUALSET	18	1505-1522
56	HARD WHITE SPRING ELITE	PENDLETON, OR	W.E. KRONSTAD	14	1523-1536
57	DUAL PURPOSE SPRING ELITE	PENDLETON, OR	W.E. KRONSTAD	14	1537-1550
58	WINTER/SPRING TRIAL	LIND, WA	E. DONALDSON	12	1551-1562
59	CAMAS WHEAT BREEDING	CULDESAC, ID	W.K. POPE	14	1563-1576
60	CAMAS WHEAT BREEDING	CULDESAC, ID	W.K. POPE	10	1577-1586
61	HARD RED SPRING ELITE	PENDLETON, OR	W.E. KRONSTAD	21	1587-1607
62	ADVANCED HARD RED SPRING (9010)	DAVIS, CA	C.O. QUALSET	26	1608-1633
63	VARIETY X SALINITY YT (9152)	CORCORAN, CA	C.O. QUALSET	64	1634-1697
64	ESCA SALINITY YT (9155)	CORCORAN, CA	C.O. QUALSET	34	1698-1731
65	ADVANCED CLUBS	PULLMAN, WA	R.E. ALLAN	30	1732-1761
66	ADVANCED COMMON	WALLA WALLA, WA	R.E. ALLAN	34	1762-1795
67	WESTERN REGIONAL SPRING	ID, WA	.	36	1796-1831
68	WESTERN REGIONAL HARD RED WINTER	ID, MT, OR, WA	.	38	1832-1869
69	WESTERN REGIONAL SOFT WHITE WINTER	ID, OR, WA	.	38	1870-1907
70	PRELIMINARY SWW	WALLA2, PULLMAN, WA	R.E. ALLAN	25	1908-1932
71	ADVANCED SWW	PULLMAN, WA	R.E. ALLAN	34	1933-1966
72	PRELIMINARY CLUBS	WALLA2, PULLMAN, WA	R.E. ALLAN	21	1967-1987
73	PE ALLOPLASMIC	PULLMAN, WA	R.E. ALLAN	14	1988-2001
74	AIR CLEANING/SPROUT DAMAGE	.	.	12	2002-2013
75	DRILL STRIPS	PULLMAN, WA	.	28	2014-2041
76	WINTER WHEAT QUALITY	PENDLETON, OR	W.E. KRONSTAD	3	2042-2044
77	DUAL PURPOSE SWS	PENDLETON, OR	W.E. KRONSTAD	12	2045-2056
78	HRW QUALITY	PENDLETON, OR	W.E. KRONSTAD	11	2057-2067
79	CHINESE SPRING	DAVIS, CA	P.K. ZMER	1	2068-2068
80	SWW ELITE QUALITY	RUGGS, OR	W.E. KRONSTAD	46	2069-2114

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WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

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NURSCO	NURSERY NAME	LOCATION	BREEDER	SNUM	SNUM RANGE
81	HRS ADVANCED QUALITY	PENDLETON, OR	W.E. KRONSTAD	100	2115-2214
82	HWS ADVANCED QUALITY	PENDLETON, OR	W.E. KRONSTAD	67	2215-2281
83	STATE HRW	LIND, WA	E. DONALDSON	20	2282-2301
84	ADVANCED HRW	LIND, WA	E. DONALDSON	36	2302-2337
85	PRELIMINARY WINTER	LIND, WA	E. DONALDSON	192	2338-2529
86	PNW COLLABORATIVE STUDY	ID, WA	.	11	2530-2540
87	OSU QUALITY SAMPLES	KLAMATH FALLS, OR	R. DOVEL	4	2541-2544
88	SPRING LINES (WA7668)	WA	C.F. KONZAK	14	2545-2558
89	FULL CIRCLE SEEDS	MOSES LAKE, WA	G. TORREY	10	2559-2568
90	USWA XIV	.	.	55	2569-2623
91	WMC WORLD WHEAT STUDY	.	.	30	2624-2653
92	RESEARCH WHEAT SAMPLES	ALBANY, CA	D.D. KASARDA	21	2654-2674
93	USWA XV	.	.	55	2675-2729

NURSCO 1

BUTTE CO., CA

L.F. JACKSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890001	ANZA	20	HRS	63.2	71.9	0.29	92.4	8.4	55.4	2M
890002	YECORA ROJO	112	HRS	63.0	73.3	0.33	91.7	9.4	59.9	8M
890003	PHOENIX	221	HRS	63.0	73.3	0.32	92.2	9.4	60.5	4M
890004	PROBRED	243	HRS	62.8	72.4	0.34	90.2	8.7	59.7	8M
890005	YOLO	353	HRS	63.7	73.2	0.31	92.6	8.3	59.5	3M
890006	KLASIC	415	HWS	65.3	74.3	0.31	93.9	9.2	60.2	8M
890007	PROBRAND 775	538	HRS	61.9	72.8	0.35	90.2	10.0	62.8	5H
890008	TADINIA	544	HRS	64.8	75.2	0.30	95.0	9.0	56.1	3M
890009	UC638	6/638	HRS	64.0	74.8	0.31	94.4	9.1	59.2	8M
890010	S8330501	671	HRS	63.0	70.0	0.33	88.3	9.6	57.4	4M
890011	BAKER	716	HRS	63.5	72.3	0.33	90.7	9.9	61.4	8M
890012	ESCA2	776	HRS	63.7	69.6	0.33	87.9	9.7	63.0	7M
890013	ESCA4	778	HRS	63.6	69.6	0.33	87.8	10.0	61.9	6M
890014	ESCA5	779	HRS	65.8	69.8	0.31	89.2	9.7	60.8	6M
890015	UC784	784	HRS	64.2	70.0	0.33	88.3	9.6	57.1	4M
890016	UC785	785	HRS	63.6	69.0	0.35	86.2	9.4	57.4	5M
890017	UC786	786	HRS	64.1	70.5	0.30	90.4	8.6	58.2	5M
890018	DA984-034	788	HRS	64.3	69.3	0.36	85.9	10.3	60.7	4M
890019	FMC BR5144	804	HRS	63.5	72.7	0.36	89.6	8.1	57.4	4M
890020	FMC BR5236	821	HRS	62.2	70.9	0.29	91.3	9.5	58.4	8M
890021	FMC BR5450	822	HRS	64.7	71.9	0.31	91.3	9.8	58.0	8M
890022	FMC BR5678	823	HRS	62.2	72.4	0.36	89.2	9.8	58.5	8M
890023	FMC BR5784	824	HRS	61.2	71.2	0.33	89.5	8.1	56.9	6L
890024	DA984-146	825	HRS	62.3	69.7	0.34	87.4	9.4	60.4	8M
890025	DA984-039	826	HRS	64.1	69.0	0.33	87.2	10.0	59.8	6M
890026	PB BR5702	6/827	HRS	63.1	71.8	0.33	90.2	10.1	59.6	8M
890027	PB BR5710	828	HRS	63.3	71.7	0.33	90.0	10.5	60.9	7M
890028	PB BR5738	829	HRS	63.0	71.1	0.39	86.5	10.5	60.5	8M
890029	PB BR5762	830	HRS	62.3	70.8	0.33	89.1	9.4	60.2	8M
890030	QT555	834	HRS	63.9	70.7	0.37	87.0	8.9	59.5	7M

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 9% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 9% protein.

NURSCO 1

BUTTE CO., CA

L.F. JACKSON

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
890001	ANZA	20	HRS	55.5	56.1	1.8	550	587	9	
890002	YECORA ROJO	112	HRS	61.0	60.6	3.8	830	805	2	
890003	PHOENIX	221	HRS	61.6	61.2	2.0	805	780	6	
890004	PROBRED	243	HRS	60.1	60.4	4.1	835	854	4	
890005	YOLO	353	HRS	59.5	60.2	1.7	765	808	8	
890006	KLASIC	415	HWS	61.1	60.9	4.1	760	748	4	
890007	PROBRAND 775	538	HRS	64.5	63.5	3.3	890	828	5	
890008	TADINTIA	544	HRS	56.8	56.8	1.8	680	680	9	
890009	UC638	638	HRS	60.0	59.9	4.2	835	829	3	
890010	S8330501	671	HRS	58.7	58.1	2.2	750	713	8	Q-FYELD, Q-MSCOR, P-MTIME, Q-LVOL, P-BCRGR
890011	BAKER	716	HRS	63.0	62.1	3.7	855	799	2	
890012	ESCA2	776	HRS	64.4	63.7	3.0	830	787	5	P-FYELD, Q-BCRGR
890013	ESCA4	778	HRS	63.6	62.6	2.4	850	788	6	P-FYELD, Q-MTIME, Q-BCRGR
890014	ESCA5	779	HRS	62.2	61.5	2.3	825	782	6	P-FYELD, Q-MTIME, Q-BCRGR
890015	UC784	784	HRS	58.4	57.8	2.8	750	713	8	Q-FYELD, Q-LVOL, P-BCRGR
890016	UC785	785	HRS	59.5	59.1	3.2	770	745	8	P-FYELD, P-BCRGR
890017	UC786	786	HRS	58.5	58.9	2.9	745	770	7	P-BCRGR
890018	DA984-034	788	HRS	62.7	61.4	2.3	885	804	6	P-FYELD, Q-MTIME, Q-BCRGR
890019	FMC BR5144	804	HRS	57.2	58.1	2.2	740	796	9	P-MTIME, P-BCRGR
890020	FMC BR5236	821	HRS	59.6	59.1	3.6	875	844	5	Q-BCRGR
890021	FMC BR5450	822	HRS	59.5	58.7	3.4	900	850	4	Q-S-BCRGR
890022	FMC BR5678	823	HRS	60.0	59.2	3.5	860	810	5	Q-BCRGR
890023	FMC BR5784	824	HRS	56.7	57.6	3.2	750	806	8	P-BCRGR
890024	DA984-146	825	HRS	61.5	61.1	3.1	815	790	6	P-FYELD, Q-BCRGR
890025	DA984-039	826	HRS	62.5	61.5	2.3	870	808	4	P-FYELD, Q-S-BCRGR
890026	PB BR5702	827	HRS	62.4	61.3	3.8	910	842	3	
890027	PB BR5710	828	HRS	64.1	62.6	3.4	935	842	4	Q-BCRGR
890028	PB BR5738	829	HRS	63.7	62.2	3.4	890	797	3	Q-MSCOR
890029	PB BR5762	830	HRS	62.3	61.9	3.8	870	845	4	Q-FYELD, Q-BCRGR
890030	QT555	834	HRS	62.1	62.2	3.3	760	766	8	Q-FYELD, Q-MSCOR, P-BCRGR

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WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

CALIFORNIA COMMON WHEAT TEST

L.F. JACKSON

BUTTE CO., CA

NURSCO 1

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890031 QT562		835	HRS	63.2	69.7	0.39	84.9	7.8	57.7	6L
890032 QT574		836	HRS	63.8	68.8	0.32	87.6	9.2	57.5	6L
890033 QT578		837	HRS	64.5	68.8	0.36	85.4	8.6	57.8	4M
890034 QT588		838	HRS	63.7	70.7	0.34	88.5	8.5	57.8	4M
890035 UC839		839	HRS	62.8	70.4	0.29	90.8	9.3	59.5	7L
890036 UC840		840	HRS	63.5	70.3	0.31	89.6	8.6	60.8	6L
890037 UC841		841	HRS	60.8	69.4	0.30	89.2	10.0	59.3	8M
890038 UC842		842	HRS	62.0	71.6	0.31	90.9	10.4	60.2	7M
890039 UC843		843	HRS	62.6	71.6	0.30	91.5	10.5	61.4	8M
890040 UC844		844	HRS	62.5	70.5	0.34	88.3	10.0	59.7	8M
890041 UC845		845	HRS	64.4	73.2	0.32	92.2	10.6	59.1	3M
890042 UC846		846	HRS	64.0	74.0	0.29	94.5	10.4	60.5	6M
890043 UC847		847	HRS	64.7	71.2	0.32	90.1	10.2	60.5	5H
890044 YECORA ROJO 87W		848	HRS	64.5	70.7	0.33	89.0	9.5	61.2	6M
890045 UC849		849	HRS	62.7	72.0	0.35	89.4	9.7	59.3	4M
890046 UC851		851	HRS	63.9	69.8	0.29	90.2	9.9	61.9	7M
890047 ESCA32		853	HRS	62.0	69.5	0.33	87.8	9.2	61.1	8M

NURSCO 1

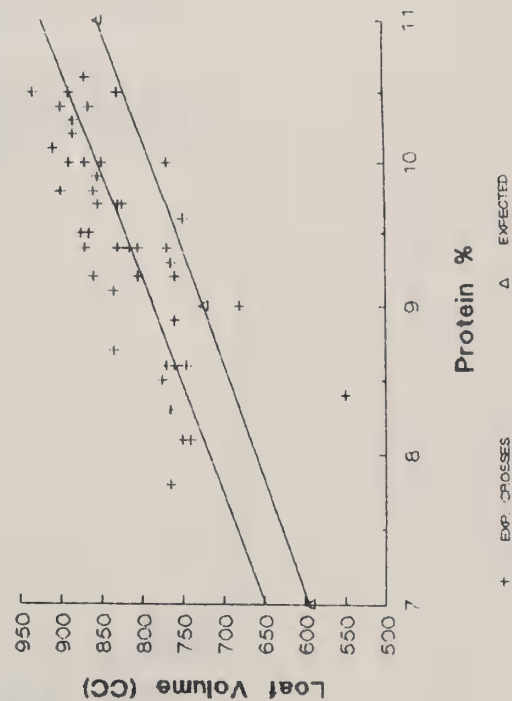
BUTTE CO., CA

L.F. JACKSON

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
890031 QT562	HRS	835		58.2	59.4	2.8	765	839	8	P-FYELD, P-MSCOR, P-BCRGR
890032 QT574	HRS	836		59.4	59.2	2.9	860	848	7	P-FYELD, P-BCRGR
890033 QT578	HRS	837		59.1	59.5	2.8	760	785	8	P-FYELD, P-BCRGR
890034 QT588	HRS	838		59.0	59.5	2.6	775	806	8	Q-FYELD, P-BCRGR
890035 UC839	HRS	839		62.5	62.2	5.2	765	746	7	Q-FYELD, P-BCRGR
890036 UC840	HRS	840		62.1	62.5	3.2	770	795	8	Q-FYELD, P-BCRGR
890037 UC841	HRS	841		62.0	61.0	3.2	770	708	7	P-FYELD, Q-LVOL, P-BCRGR
890038 UC842	HRS	842		63.3	61.9	2.9	865	778	6	Q-BCRGR
890039 UC843	HRS	843		64.6	63.1	3.3	830	737	5	Q-BCRGR
890040 UC844	HRS	844		62.4	61.4	3.3	870	808	3	Q-FYELD
890041 UC845	HRS	845		61.4	59.8	1.6	870	771	6	VP-MTIME, Q-BCRGR
890042 UC846	HRS	846		63.6	62.2	2.9	900	813	4	Q-BCRGR
890043 UC847	HRS	847		63.4	62.2	3.7	885	811	4	Q-BCRGR
890044 YECORA ROJO 87W	HRS	848		62.4	61.9	2.8	865	834	4	Q-FYELD, Q-BCRGR
890045 UC849	HRS	849		63.7	63.0	2.6	855	812	5	Q-BCRGR
890046 UC851	HRS	851		63.5	62.6	2.8	855	799	6	P-FYELD, Q-BCRGR
890047 ESCA32	HRS	853		62.0	61.8	3.6	805	793	6	P-FYELD, Q-BCRGR

COMMENTS: This nursery averaged 9% flour protein. The major deficiencies in this nursery were poor flour yield and poor bread crumb grain. Nearly all selections had loaf volumes better than that expected for their flour protein level. See "Remarks" and "Footnotes".

LOAF VOLUME VS PROTEIN



NURSCO 3

PULLMAN, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890050 DAWS		C1017419	SWW	64.0	70.6	0.31	91.0	9.5	53.8	9.01
890051 WHITMAN		VT080011	TRIT	56.0	67.6	0.40	81.6	8.8	50.1	8.15
890052 B79-2372, 6TA876/YCO		VT082831	TRIT	56.4	67.8	0.37	83.6	8.9	52.0	8.95
890053 MT36/WHIT		VT082481	TRIT	56.4	67.1	0.35	84.0	8.9	52.2	8.16
890054 FLORA		VT083985	TRIT	51.8	66.2	0.39	80.4	8.4	51.6	8.54
890055 C177/FLORA		ARCOC245	TRIT	54.8	69.1	0.37	85.3	8.6	50.2	8.51
890056 JUAN		VT082821	TRIT	56.6	66.2	0.39	80.4	9.0	51.6	8.45
890057 M76-6276/791T2, WELSH		VT085139	TRIT	54.8	62.4	0.40	74.9	9.4	52.1	7.93
890058 M76-6292/M76-6390-2		VT085464	TRIT	51.2	65.6	0.40	79.1	8.7	49.1	8.23
890059 BOKOLO/M76-6390-2		VT086086	TRIT	52.0	67.3	0.37	83.1	8.8	49.1	8.36
890060 STEPHENS		C1017596	SWW	63.0	71.9	0.32	92.0	9.1	54.4	9.31
890061 .		VT086493	TRIT	53.2	65.9	0.41	78.8	9.5	49.5	8.26
890062 BOKOLO/WHIT		VT086497	TRIT	52.4	69.1	0.34	87.2	8.5	48.6	8.55
890063 .		VT086464	TRIT	56.6	66.6	0.36	82.8	8.8	49.8	8.26
890064 VT36/WHIT		VT082478	TRIT	56.2	66.0	0.36	82.0	8.9	50.7	8.35
890065 GRACE		VMO70021	TRIT	52.4	62.4	0.41	74.3	10.7	51.2	8.06
890066 .		ARC08943	TRIT	53.0	67.1	0.37	82.8	8.9	51.2	8.79
890067 B896		ARC19313	TRIT	56.4	67.5	0.39	82.1	9.0	49.9	8.51
890068 A876-10-1		AR8776101	TRIT	56.0	68.6	0.41	82.2	8.8	48.2	8.94
890069 C1193-16		ARC19316	TRIT	56.0	67.6	0.38	82.8	8.8	49.8	8.45
890070 LEWJAIN		C1017909	SWW	64.8	71.8	0.30	93.1	9.3	55.3	9.45
890071 .		6/VT087121	TRIT	53.8	71.3	0.39	87.1	8.6	48.7	8.66
890072 .		VT087124	TRIT	48.4	59.6	0.40	71.4	9.7	50.3	8.01
890073 .		VT087488	TRIT	56.4	67.3	0.33	85.5	8.6	50.7	8.29
890074 .		6/VT087489	TRIT	58.6	68.6	0.36	85.3	8.8	49.8	8.82
890075 .		VT087498	TRIT	53.6	65.9	0.35	82.5	8.1	49.0	8.31
890076 .		VT087501	TRIT	55.2	65.7	0.36	81.8	8.6	50.2	8.19
890077 LASKO		VT1W001	TRIT	56.8	72.1	0.27	96.0	8.8	49.5	8.51
890078 C337		5/ARCOC337	TRIT	57.2	72.2	0.30	93.6	9.0	48.1	8.66
890079 C360		ARCOC360	TRIT	59.4	69.7	0.29	91.7	8.8	51.0	8.40

NURSCO 3

PULLMAN, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	COOIC	MTYPE	RMKS
890050	DAWS	C1017419	SWW	9.07	3L	
890051	WHITMAN	VT080011	TRIT	8.13	2M	
890052	B79-2372,61A876/YCO	VT082831	TRIT	8.94	2M	
890053	MT36/WHIT	VT082481	TRIT	8.15	3M	
890054	FLORA	VT083985	TRIT	8.47	1M	
890055	C177/FLORA	ARCOC245	TRIT	8.47	2M	
890056	JUAN	VT082821	TRIT	8.45	5M	
890057	M76-6276/791T2,WELSH	VT085139	TRIT	7.97	3M	Q-FYELD, P-MSCOR, P-CODI
890058	M76-6292/M76-6390-2	VT085464	TRIT	8.19	2M	
890059	BOKOLO/M76-6390-2	VT086086	TRIT	8.34	2M	
890060	STEPHENS	C1017596	SWW	9.32	2M	
890061	.	VT086493	TRIT	8.32	2M	
890062	BOKOLO/WHIT	VT086497	TRIT	8.49	2M	
890063	.	VT086464	TRIT	8.24	4M	
890064	VT36/WHIT	VT082478	TRIT	8.34	3M	
890065	GRACE	VM070021	TRIT	8.25	3M	Q-FYELD, P-MSCOR
890066	.	ARC08943	TRIT	8.78	3M	
890067	B896	ARC19313	TRIT	8.51	2M	
890068	A876-10-1	AR8776101	TRIT	8.92	1M	
890069	C1193-16	ARC19316	TRIT	8.43	3M	
890070	LEWJAIN	C1017909	SWW	9.48	5M	
890071	.	VT087121	TRIT	8.62	2M	
890072	.	VT087124	TRIT	8.09	2M	P-TWT, P-FYELD, P-MSCOR
890073	.	VT087488	TRIT	8.24	3M	
890074	.	VT087489	TRIT	8.80	2L	
890075	.	VT087498	TRIT	8.21	2M	
890076	.	VT087501	TRIT	8.14	3M	
890077	LASKO	VT11W001	TRIT	8.49	2M	
890078	C337	ARCOC337	TRIT	8.66	2M	
890079	C360	ARCOC360	TRIT	8.38	3M	

TRITICALE QUALITY TEST

NURSCO 3

PULLMAN, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	COOI
890080 DUSTY		P1486429	SWW	63.6	73.8	0.27	98.2	8.5	54.1	9.68
890081 C367		ARCOC367	TRIT	58.0	71.6	0.33	91.0	8.6	49.7	8.43
890082 L0415		6/ AR/L0415	TRIT	54.4	68.6	0.29	89.7	8.3	50.0	8.58
890083 M76-6276/VT82835		VT088149	TRIT	53.6	65.6	0.28	86.5	7.6	50.3	8.20
890084 M76-6276/VT82835		5/ VT088151	TRIT	63.6	69.9	0.30	90.7	10.0	52.6	8.70
890085 VT6370/VT082827		6/ VT088153	TRIT	55.2	67.0	0.25	90.2	9.4	50.1	8.93
890086 KISS/WHIT//VT82816		VT088157	TRIT	52.4	62.1	0.38	75.9	9.3	52.5	8.24
890087 JUAN/VT082830		VT088571	TRIT	55.2	65.0	0.30	84.5	9.2	54.6	8.29
890088 VT082467/BEAGLE		VT088573	TRIT	53.6	68.0	0.38	83.3	9.5	53.8	8.75
890089 VT0837/M76-6939		VT088578	TRIT	49.6	60.9	0.33	77.4	9.1	53.2	8.31
890090 JUAN/VT82827		6/ VT088158	TRIT	59.2	67.0	0.26	90.1	8.2	55.3	8.66
890091 WHITMAN/VT082835		VT088569	TRIT	53.2	65.7	0.41	78.5	10.0	54.1	8.18
890092 VT082478/MT8204		VT088574	TRIT	58.0	62.7	0.35	78.4	9.1	57.3	7.86
890093 VT082478/MT8218		VT088576	TRIT	52.8	66.5	0.39	80.8	8.9	54.7	8.29
890094 GRACE/WHIT		VT082464	TRIT	56.0	67.3	0.34	84.9	8.8	53.2	8.36
890095 METZGER-SEL		MT870003	TRIT	56.0	67.1	0.37	82.8	9.8	51.1	8.44
890096 METZGER-SEL		MT870010	TRIT	57.6	66.2	0.41	79.2	9.6	49.9	8.52
890097 METZGER-SEL		MT870015	TRIT	54.8	66.2	0.32	84.8	8.9	52.6	8.31
890098 METZGER-SEL		MT870023	TRIT	56.8	67.5	0.40	81.4	9.2	50.9	8.35
890099 METZGER-SEL		MT870027	TRIT	56.0	63.5	0.44	73.8	9.6	51.2	8.44
890100 METZGER-SEL		MT870028	TRIT	56.4	65.3	0.41	77.9	8.7	51.6	8.48
890101 METZGER-SEL		MT870034	TRIT	54.0	65.0	0.43	76.3	9.5	50.1	8.66
890102 METZGER-SEL		6/ MT870036	TRIT	57.6	68.9	0.36	85.7	8.8	50.8	8.66
890103 METZGER-SEL		MT870046	TRIT	55.6	63.8	0.44	74.2	9.4	50.1	8.56
890104 METZGER-SEL		MT870046	TRIT	54.4	63.6	0.42	75.2	9.1	50.7	8.42

NURSCO 3

PULLMAN, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	RMKS
890080 DUSTY		PI486429	SWW	9.62	4L	
890081 C367		ARCOC367	TRIT	8.38	2M	
890082 L0415		AR/L0415	TRIT	8.50	2M	
890083 M76-6276/VT82835		VT088149	TRIT	8.05	2M	
890084 M76-6276/VT82835		VT088151	TRIT	8.81	4M	
890085 VT76370/VT082827		VT088153	TRIT	8.97	3L	
890086 KISS/WHIT//VT82816		VT088157	TRIT	8.27	2M	Q-FYELD
890087 JUAN/VT082830		VT088571	TRIT	8.31	4L	
890088 VT082467/BEAGLE		VT088573	TRIT	8.81	4M	
890089 VT0837/M76-6939		VT088578	TRIT	8.32	2M	P-TWT P-FYELD
890090 JUAN/VT82827		VT088158	TRIT	8.57	5L	
890091 WHITMAN/VT082835		VT088569	TRIT	8.28	3M	
890092 VT082478/MT8204		VT088574	TRIT	7.87	3M	Q-FYELD, P-CODI
890093 VT082478/MT8218		VT088576	TRIT	8.28	2M	
890094 GRACE/WHIT		VT082464	TRIT	8.34	2M	
890095 METZGER-SEL		MT870003	TRIT	8.53	2M	
890096 METZGER-SEL		MT870010	TRIT	8.59	2M	
890097 METZGER-SEL		MT870015	TRIT	8.30	4M	
890098 METZGER-SEL		MT870023	TRIT	8.37	2M	
890099 METZGER-SEL		MT870027	TRIT	8.50	2M	Q-FYELD, P-MSCOR
890100 METZGER-SEL		MT870028	TRIT	8.44	2M	
890101 METZGER-SEL		MT870034	TRIT	8.72	2M	
890102 METZGER-SEL		MT870036	TRIT	8.64	3M	
890103 METZGER-SEL		MT870046	TRIT	8.61	2M	Q-FYELD, P-MSCOR
890104 METZGER-SEL		MT870046	TRIT	8.44	2M	Q-FYELD

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 9% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 9% protein.

COMMENTS: As is usual with Triticale, grading for pastry properties with tests designed for wheat is difficult.

Several Triticale selections appeared to produce a better product in terms of milling and baking than did the others. These are footnoted above.

MURSCO 4

PULLMAN, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890105	LEWJAIN	C1017909	SWW	65.2	72.9	0.33	92.6	9.2	55.8	3M
890106	ID745318/VH80412	VH088048	HWW	63.6	68.8	0.32	87.5	9.7	59.3	6L
890107	821W16, LOVRIN32/HILL81	VH088088	HWW	65.2	71.8	0.31	91.2	10.5	60.3	4M
890108	WA6910/OR797	VJ088147	HWW	64.8	72.2	0.30	92.1	11.3	60.6	2M
890109	LUKE/BR704434/LJN/WA6915	VH088441	HWW	65.6	71.7	0.28	92.6	10.4	58.0	3M
890110	STEPHENS	C1017596	SWW	64.4	73.9	0.31	95.1	9.3	56.1	2L
890111	LUKE/PI245622/NGN/LJN	VH088484	HWW	64.8	70.2	0.30	90.1	10.6	60.3	3M
890112	VH083149/LEWJAIN	VH088515	HWW	62.8	71.4	0.30	91.3	9.4	58.3	4L
890113	VH083333/ORCW8113	VH088527	HWW	64.8	71.9	0.30	91.8	9.0	58.8	3M
890114	VH083333/LEWJAIN	VH088531	HWW	64.4	71.7	0.28	92.6	9.1	60.1	4M
890115	YMH/HYS/SPN/EXR/HYS/7C	VH088581	HWW	64.0	69.7	0.26	91.7	9.3	58.5	2M
890116	F12-71/CHRC//NAI/HN7	VH088587	HWW	64.4	69.7	0.31	89.0	11.3	58.4	3M
890117	SPN/69153/YMH/672376924	VH088590	HWW	65.2	70.5	0.25	93.0	10.6	53.8	3L
890118	MRS/3/YMH//RIEB/NCO/4/SW	VH087225	HWW	63.6	69.0	0.24	91.9	9.9	55.9	4L
890119	VM82755, BR81-4/HILL81	VH087312	HWW	66.0	71.3	0.28	92.2	10.8	58.0	4M
890120	V78037, OR680073/CERCO	VH084463	HWW	65.2	71.3	0.26	93.3	9.7	57.1	4M
890121	SENTRY/LEWJAIN	VH085206	HWW	64.8	71.3	0.30	91.2	10.5	59.5	4M
890122	DAWS/BISON'S'	VH086077	HWW	64.4	67.7	0.25	90.1	10.3	57.7	4M
890123	BLADE	VM880001	HWW	60.0	69.0	0.26	91.0	11.9	61.7	6M
890124	S.1/DT/820/0/1834/178383	REA87446	HWW	64.8	70.4	0.26	92.4	10.0	60.9	7M
890125	DAWS*2/PI393983, STORM	REA87465	HWW	65.6	69.9	0.31	89.2	9.5	58.2	5M
890126	BURT*4/THATCHER	REA87786	HWW	65.6	72.5	0.29	93.0	11.4	63.1	6M
890127	COULEE	C1014483	HWW	65.6	72.6	0.30	92.6	11.9	62.9	7M
890128	BURT */CD	REA87792	HWW	66.0	72.0	0.29	92.4	11.7	63.2	6M
890129	BURT*6/RIEBESEL	REA87802	HWW	65.6	72.0	0.26	94.0	11.3	63.6	6M
890130	SU92/7*BURT	5/ REA87814	HWW	65.6	72.2	0.28	93.2	11.1	63.6	7M
890131	WA7626	WA7626	HWW	65.6	72.8	0.28	93.8	10.9	64.6	7M
890132	SU92/7*B*2//HYBRID46/2*B	re869466	HWW	66.4	72.3	0.27	93.7	10.8	63.4	6M
890133	SU90/7*B*2//HYBRID46/2*B	RE869471	HWW	66.0	72.5	0.28	93.6	11.2	63.1	6M
890134	SU92/7*B*2//HK/2*B	RE869479	HWW	65.6	72.1	0.28	93.1	10.6	63.6	7M

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 11% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 11% protein.

NURSCO 4

PULLMAN, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	BABS 1/ 3/	BABSC 3/ 4/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
890105 LEWJAIN			SWW	54.7	56.5	2.3	705	813	8	Q-FYELD, VP-LVOL, VP-BCRGR
890106 ID745318/VH80412		CI017909	HW	61.7	63.0	4.4	580	661	9	P-LVOL, P-BCRGR
890107 821W16, LOVRIN32/HILL81		VH088048	HW	62.5	63.0	3.0	720	751	8	P-MTIME, P-LVOL, Q-BCRGR
890108 WA6910/OR797		VJ088147	HW	62.6	62.3	2.0	805	786	6	P-MTIME, P-LVOL, P-BCRGR
890109 LUKE/BR704434/LJN/WA6915		VH088441	HW	59.1	59.7	1.4	675	712	9	
890110 STEPHENS			SWW	58.1	59.8	2.3	710	812	8	
890111 LUKE/P1245622/NGN/LJN		VH088484	HW	62.6	63.0	2.3	710	735	8	P-MTIME, VP-LVOL, P-BCRGR
890112 VH083149/LEWJAIN		VH088515	HW	59.4	61.0	3.1	645	744	9	VP-LVOL, P-BCRGR
890113 VH083333/ORGW8113		VH088527	HW	59.5	61.5	2.4	635	759	9	P-MTIME, P-LVOL, P-BCRGR
890114 VH083333/LEWJAIN		VH088531	HW	59.9	61.8	2.9	740	858	8	P-BCRGR
890115 YMH/HYS/SPN/EXR/HYS/7C			HW	58.5	60.2	2.3	780	885	7	P-MTIME, P-BCRGR
890116 F12-71/CHRC/NAI/HN7		VH088581	HW	60.4	60.1	1.9	765	746	8	P-MTIME, P-LVOL, P-BCRGR
890117 SPN/69153/YMH/672376924		VH088590	HW	55.1	55.5	1.7	730	755	8	P-MTIME, P-LVOL, P-BCRGR
890118 MRS/3/YMH//RIEB/NCO/4/SW		VH087225	HW	55.5	56.6	3.3	680	748	8	Q-FYELD, P-LVOL, P-BCRGR
890119 VM82755, BR81-4/HILL81		VH087312	HW	58.5	58.7	2.6	770	782	8	P-LVOL, P-BCRGR
890120 V78037, OR680073/CERCO		VH084463	HW	56.5	57.8	2.5	725	806	7	P-LVOL, P-BCRGR
890121 SENTRY/LEWJAIN		VH085206	HW	59.7	60.2	2.2	820	851	7	P-MTIME, P-BCRGR
890122 DAWS/BISON'S		VH086077	HW	57.7	58.4	2.5	825	868	6	P-FYELD, Q-BCRGR
890123 BLADE		VM880001	HW	65.8	64.9	2.8	1005	949	2	
890124 S.1/DT/820/0/1834/178383		REA87446	HW	60.6	61.6	3.5	845	907	6	Q-BCRGR
890125 DAWS*2/P1393983, STORM		REA87465	HW	57.4	58.9	3.4	685	778	8	Q-FYELD, P-LVOL, P-BCRGR
890126 BURT*4/THATCHER		REA87786	HW	64.2	63.8	3.9	865	840	4	Q-BCRGR
890127 COULEE		CI014483	HW	65.5	64.6	4.2	910	854	3	
890128 BURT */CD		REA87792	HW	65.6	64.9	3.2	900	857	4	Q-BCRGR
890129 BURT*6/RIEBESEL		REA87802	HW	65.6	65.3	3.2	915	896	4	Q-BCRGR
890130 SU92/7*BURT		REA87814	HW	65.4	65.3	3.6	915	909	2	
890131 WA7626		WA7626	HW	66.2	66.3	4.7	855	861	4	Q-BCRGR
890132 SU92/7*B*2//HYBRID46/2*B		RE869466	HW	64.9	65.1	4.2	810	822	4	P-LVOL, Q-BCRGR
890133 SU90/7*B*2//HYBRID46/2*B		RE869471	HW	65.0	64.8	3.5	865	853	3	
890134 SU92/7*B*2//HK/2*B		RE869479	HW	64.9	65.3	4.0	815	840	4	Q-LVOL, Q-BCRGR

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890135	SU92/7*8*2//HK/2*B	RE869481	HW	66.0	72.9	0.25	95.5	11.0	62.4	7M
890136	.	N8703501	HW	66.0	69.1	0.27	90.5	10.9	64.3	8M
890137	.	N8705702	HW	64.8	69.5	0.29	89.9	9.9	63.7	8M
890138	.	N8708902	HW	65.2	69.4	0.27	90.8	10.1	60.3	3M
890139	KS84HW196	KS84W196	HW	65.6	68.2	0.26	90.1	13.3	66.2	4H
890140	NA-W81-162W	NAW81162	HW	65.2	70.7	0.31	90.1	11.4	62.9	4M
890141	DAGGER	VM880002	HW	65.6	70.1	0.30	90.0	12.3	63.1	3H
890142	SPEAR	VM880003	HW	61.6	70.6	0.32	89.5	11.3	63.1	4M
890143	V82432	VMSR8904	HW	65.2	68.1	0.29	88.4	10.0	60.9	3M
890144	V82432-2	VMSR8905	HW	62.5	67.7	0.28	88.6	10.0	58.2	3M
890145	V82434	VMSR8906	HW	64.4	69.4	0.31	88.8	10.1	58.2	2M
890146	V82435	VMSR8907	HW	64.4	68.8	0.30	88.5	9.6	56.6	2M
890147	.	N8301201	HW	66.0	69.8	0.29	90.3	9.7	60.3	7M
890148	.	5/ N8301601	HW	65.2	73.5	0.27	95.1	11.8	61.5	4H
890149	.	5/ N8303501	HW	66.0	70.4	0.29	90.8	11.2	61.6	7M
890150	.	N8401202	HW	66.0	69.4	0.28	90.3	11.0	62.8	8M
890151	.	N8703501	HW	66.0	68.7	0.28	89.6	10.9	65.6	8M
890152	.	N8806601	HW	66.0	72.8	0.28	93.8	10.9	60.9	4M
890153	.	N8807501	HW	66.4	71.2	0.26	93.3	11.7	62.4	4M
890154	.	N8807601	HW	64.8	66.5	0.28	87.3	10.3	59.9	3M
890155	.	N8807602	HW	65.2	66.7	0.29	87.0	10.9	61.6	3M
890156	.	N8807701	HW	66.4	73.5	0.28	94.6	10.0	60.2	3M
890157	.	N8807809	HW	64.8	67.0	0.28	87.7	10.7	60.2	3M
890158	.	N8810201	HW	65.2	71.2	0.25	93.7	10.8	60.9	3M

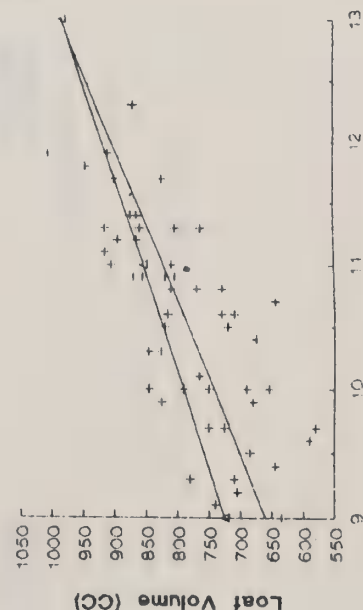
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PULLMAN, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
890135	SU92/7*B*2//HK/2*B	RE869481	HW	64.1	64.1	4.3	905	905		5 Q-BCRGR
890136		N8703501	HW	65.9	66.0	5.4	820	826		6 Q-FYELD, Q-LVOL, Q-BCRGR
890137		N8705702	HW	65.3	66.4	4.1	825	893		6 Q-FYELD, Q-BCRGR
890138		N8708902	HW	60.1	61.0	2.1	765	821		7 Q-FYELD, P-MTIME, Q-LVOL, Q-U-BCRGR
890139	KS84HW196	KS84HW196	HW	70.2	67.9	4.2	955	812		3 P-FYELD, P-LVOL
890140	NA-W81-162W	NAW81162	HW	64.0	63.6	2.4	875	850		6 Q-MTIME, Q-BCRGR
890141	DAGGER	VM880002	HW	65.1	63.8	2.2	870	789		5 P-MTIME, P-LVOL, Q-BCRGR
890142	SPEAR	VM880003	HW	64.1	63.8	2.4	860	841		4 Q-MTIME, Q-BCRGR
890143	V82432	VMSR8904	HW	61.6	62.6	2.2	750	812		7 P-FYELD, P-MTIME, P-LVOL, P-BCRGR
890144	V82432-2	VMSR8905	HW	57.9	58.9	2.6	690	752		8 P-FYELD, P-LVOL, P-BCRGR
890145	V82434	VMSR8906	HW	58.0	58.9	1.8	655	711		9 P-FYELD, P-MTIME, P-LVOL, P-BCRGR
890146	V82435	VMSR8907	HW	55.9	57.3	1.9	590	677		9 P-FYELD, P-MTIME, P-LVOL, P-BCRGR
890147		N8301201	HW	61.7	63.0	4.4	750	831		7 Q-FYELD, Q-LVOL, Q-BCRGR
890148		N8301601	HW	64.0	63.2	3.7	945	895		2
890149		N8303501	HW	63.5	63.3	3.6	895	883		3
890150		N8401202	HW	65.5	65.5	4.6	810	810		6 Q-FYELD, P-LVOL, Q-BCRGR
890151		N8703501	HW	68.2	68.3	5.6	870	876		4 P-FYELD, Q-BCRGR
890152		N8806601	HW	62.5	62.6	2.5	805	811		6 P-LVOL, Q-BCRGR
890153		N8807501	HW	65.8	65.1	3.3	825	782		5 P-LVOL, Q-BCRGR
890154		N8807601	HW	60.9	61.6	2.4	845	888		5 VP-FYELD, Q-MTIME, Q-BCRGR
890155		N8807602	HW	63.2	63.3	2.5	855	861		8 VP-FYELD, P-BCRGR
890156		N8807701	HW	60.9	61.9	2.0	790	852		8 P-MTIME, P-BCRGR
890157		N8807809	HW	61.6	61.9	2.6	645	664		9 P-FYELD, VP-LVOL, P-BCRGR
890158		N8810201	HW	61.4	61.6	2.1	730	742		8 P-MTIME, VP-LVOL, P-BCRGR

LOAF VOLUME VS PROTEIN



COMMENTS: This nursery averaged 11% flour protein. The major deficiencies were lower than expected loaf volumes and questionable to poor bread crumb grain. Over half of the selections in the nursery had loaf volumes lower than expected for their flour protein level. See "Remarks" and "Footnotes".

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYLD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890159 LEWJAIN		C1017909	SRW	63.2	71.6	0.32	91.6	10.5	55.9	3M
890160 KANZLER		GERM0001	SRW	59.6	71.9	0.36	89.5	10.8	55.0	5L
890161 REKTOR		GERM0002	HRW	60.0	72.0	0.30	92.0	12.1	58.4	5M
890162 KRAKA		GERM0003	HRW	58.0	71.8	0.33	90.2	9.7	55.8	3L
890163 ARES		GERM0004	SRW	58.0	70.5	0.33	89.5	10.0	55.5	5L
890164 SORBAS		GERM0005	HRW	59.2	71.2	0.30	91.3	11.4	55.0	2M
890165 ADULAR		GERM0006	HRW	57.2	69.6	0.28	90.5	12.1	56.3	4M
890166 SPERBER		GERM0007	HRW	59.6	70.2	0.32	89.0	10.8	57.0	7M
890167 OBELISK		GERM0008	HRW	60.8	71.8	0.31	91.1	11.8	57.5	2M
890168 ORESTIS		GERM0009	HRW	60.8	71.1	0.30	90.9	10.8	57.3	2M
890169 PAGODE		GERM0010	HRW	59.2	71.4	0.31	90.8	11.6	57.1	2M
890170 DOLOMIT		GERM8811	HRW	62.4	73.2	0.30	93.2	11.6	57.1	5M
890171 HERZOG		GERM8812	HRW	62.8	73.1	0.32	92.1	11.5	57.0	5M
890172 ASTRON		GERM8813	HRW	61.6	74.0	0.32	93.0	13.1	58.1	8M
890173 DUSTY		P1486429	SRW	62.8	72.1	0.36	89.8	9.3	55.8	5L
890174 APOLLO		GERM8814	SRW	60.0	69.7	0.33	88.6	10.4	52.9	2L
890175 FUTUR		GERM8815	SRW	61.2	67.8	0.33	86.2	10.4	55.6	4L
890176 WM1720		GERM8816	HRW	58.0	71.4	0.33	89.8	10.3	55.0	2M
890177 LONGBOW		GRB00001	SRW	55.2	69.8	0.34	88.1	10.2	54.3	2M
890178 MISSION		GRB00002	HRW	59.2	72.6	0.34	90.5	10.9	53.5	2M
890179 BRIMSTONE		GRB00003	HRW	57.2	72.0	0.34	89.9	10.4	55.0	4L
890180 CORINTHIAN		GRB00004	SRW	53.6	71.1	0.36	88.5	9.6	52.5	3L
890181 AVALON		GRB00005	HRW	57.2	71.4	0.34	89.3	10.9	56.5	5M
890182 TASKER		GRB00006	HRW	55.2	69.9	0.35	87.2	10.2	55.3	2M
890183 BLAZE		GRB00007	SRW	56.0	71.5	0.35	89.7	10.3	52.7	2L
890184 BR1019E41/LEWJAIN		V0086583	SRW	60.4	68.2	0.35	85.4	12.1	51.0	3L
890185		ORFT8046	HRW	53.0	62.9	0.36	79.5	9.6	51.4	2M
890186 NFC-142-85A		NFC87142	HRW	56.0	67.0	0.34	84.7	11.7	51.0	2M
890187 NFC-380-84A		NFC87380	SRW	56.4	69.9	0.33	88.8	9.5	51.8	2L
890188 MADSEN		WA007163	SRW	62.4	74.0	0.35	92.8	10.7	51.3	3M

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics

6/ Promising overall quality characteristics

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PULLMAN, WA

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LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
890159 LEWJAIN		CI017909	SRW						
890160 KANZLER		GERM0001	SRW						
890161 REKTOR		GERM0002	HRW	59.7	58.6	3.2	765	697	8
890162 KRAKA		GERM0003	HRW						
890163 ARES		GERM0004	SRW						
890164 SORBAS		GERM0005	HRW						
890165 ADULAR		GERM0006	HRW	58.1	57.0	2.6	695	627	9
890166 SPERBER		GERM0007	HRW	56.5	56.7	3.9	540	552	9
890167 OBELISK		GERM0008	HRW						
890168 ORESTIS		GERM0009	HRW						
890169 PAGODE		GERM0010	HRW						
890170 DOLOMIT		GERM8811	HRW	56.9	56.3	3.2	685	648	9
890171 HERZOG		GERM8812	HRW						
890172 ASTRON		GERM8813	HRW	61.9	59.8	4.8	830	700	6
890173 DUSTY		PI486429	SRW						
890174 APOLLO		GERM8814	SRW						
890175 FUTUR		GERM8815	SRW						
890176 WM1720		GERM8816	HRW						
890177 LONGBOW		GRB00001	SRW						
890178 MISSION		GRB00002	HRW						
890179 BRIMSTONE		GRB00003	HRW						
890180 CORINTHIAN		GRB00004	SRW						
890181 AVALON		GRB00005	HRW	58.1	58.2	2.6	740	746	8
890182 TASKER		GRB00006	HRW						
890183 BLAZE		GRB00007	SRW						
890184 BR1019E41/LEWJAIN		V0086583	SRW						
890185		ORFT8046	HRW						
890186 NFC-142-85A		NFC87142	HRW						
890187 NFC-380-84A		NFC87380	SRW						
890188 MADSEN		WA007163	SRW						

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LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	RMKS
890159 LEWJAIN		C1017909	SRW	9.29	9.23	
890160 KANZLER		GERM0001	SRW	9.21	9.19	
890161 REKTOR		GERM0002	HRW			P-LVOL, P-BCRGR
890162 KRAKA		GERM0003	HRW			Q-TWT
890163 ARES		GERM0004	SRW	9.34	9.23	Q-TWT
890164 SORBAS		GERM0005	HRW			P-TWT, P-LVOL, P-BCRGR
890165 ADULAR		GERM0006	HRW			VP-LVOL, P-BCRGR
890166 SPERBER		GERM0007	HRW			
890167 OBELISK		GERM0008	HRW			
890168 ORESTIS		GERM0009	HRW			
890169 PAGODE		GERM0010	HRW			
890170 DOLOMIT		GERM8811	HRW			P-BABS, P-LVOL, P-BCRGR
890171 HERZOG		GERM8812	HRW			
890172 ASTRON		GERM8813	HRW			
890173 DUSTY		P1486429	SRW	9.51	9.33	P-LVOL, Q-BCRGR
890174 APOLLO		GERM8814	SRW			
890175 FUTUR		GERM8815	SRW	9.52	9.46	Q-FYELD
890176 WM1720		GERM8816	HRW	9.06	9.00	P-FYELD
890177 LONGBOW		GRB00001	SRW			Q-TWT
890178 MISSION		GRB00002	HRW	8.87	8.79	P-TWT, Q-FYELD, Q-COD1
890179 BRIMSTONE		GRB00003	HRW			P-TWT
890180 CORINTHIAN		GRB00004	SRW	9.37	9.22	VP-TWT
890181 AVALON		GRB00005	HRW			P-TWT, P-LVOL, P-BCRGR
890182 TASKER		GRB00006	HRW			P-TWT, Q-FYELD
890183 BLAZE		GRB00007	SRW	9.23	9.15	P-TWT
890184 BR1019E41/LEWJAIN		V0086583	SRW			
890185		ORFT8046	HRW			VP-TWT, VP-FYELD
890186 NFC-142-85A		NFC87142	HRW			P-TWT, P-FYELD
890187 NFC-380-84A		NFC87380	SRW	9.55	9.39	P-TWT, Q-FYELD
890188 MADSEN		WA007163	SRW	9.36	9.33	

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890189	NFC-80-84B	NFC87080	SRW	56.0	67.8	0.37	83.7	9.4	51.7	2L
890190	NFC-36-84A	NFC87036	SRW	60.4	69.4	0.34	87.6	10.8	50.3	1M
890191	NFC-67-84A	NFC87067	SRW	61.6	69.5	0.32	89.4	10.4	51.4	2L
890192	NFC-369-84B	NFC87369	HRW	59.6	72.1	0.36	88.9	10.8	52.9	3M
890193	AUS18446	AUS86001	SRW	64.0	71.1	0.34	89.7	12.7	52.9	2M
890194	NE87U107	NEB86107	HRW	63.6	70.3	0.27	91.8	13.9	55.4	4M
890195	NE87U108	NEB86108	HRW	62.0	71.1	0.30	91.0	13.9	54.6	4M
890196	NE87U117	NEB86117	HRW	62.4	71.2	0.34	89.1	15.9	55.5	2H
890197	NE87U120	NEB86120	HRW	61.6	67.2	0.30	87.0	14.5	58.3	4H
890198	PERQUENCO	CHIL8701	SRW	60.0	64.2	0.27	85.5	11.1	57.7	3L
890199	LANCO	6/ CHIL8702	SRW	62.8	71.8	0.34	90.6	12.3	52.8	3M
890200	CUNCO	CHIL8703	SRW	60.0	70.2	0.36	87.3	11.9	55.5	5M
890201	CARAHUE	CHIL8704	SRW	62.8	69.8	0.36	86.8	13.2	57.1	4M
890202	MALIHUE	CHIL8705	HRW	64.0	70.2	0.36	87.0	13.0	57.2	4M
890203	STEPHENS	C1017596	SRW	62.8	73.3	0.37	90.7	10.4	55.1	2M
890204	DALCAHUE	CHIL8706	HRW	62.8	70.5	0.35	87.8	11.2	56.1	4M
890205	TEMU-193-82	CHIL8707	SRW	61.2	70.8	0.34	89.4	12.1	53.9	5M
890206	TEMU-134-84	CHIL8708	SRW	61.2	70.8	0.35	88.7	12.3	52.8	3M
890207	TEMU-342-85	CHIL8709	HRW	62.4	72.4	0.36	89.4	12.0	55.6	4M
890208	TEMU-259-86	CHIL8710	HRW	58.4	68.7	0.34	86.4	12.6	54.6	2M
890209	LONGUIMAY	CHIL8711	HRW	58.0	61.0	0.38	76.3	10.6	52.8	5L
890210	CALBUCO	CHIL8712	HRW	52.0	65.7	0.48	74.1	9.4	54.1	2L
890211	TCA-26-87	CHIL8713	SRW	56.8	62.6	0.49	69.5	9.2	55.4	5M
890212	TCA-27-87	CHIL8714	SRW	58.4	67.9	0.45	78.8	9.3	53.8	2L
890213	TCA-46-87	CHIL8715	HRW	59.2	64.2	0.38	79.7	9.5	54.8	3L
890214	TCA-57-87	CHIL8716	HRW	58.8	62.6	0.35	79.6	11.5	53.7	3L
890215	TCA-73-87	CHIL8717	HRW	58.4	60.8	0.39	75.6	12.7	51.8	2M
890216	WHITMAN	VT080011	TRIT	53.0	63.1	0.40	77.5	9.2	53.2	2M
890217	VICTORIA	ARCO8801	HRW	56.4	65.2	0.39	80.2	10.7	51.8	1M
890218	MT007811	MT007811	HRW	64.0	72.4	0.29	92.9	10.8	59.0	8M

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LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
890189	NFC-80-84B	NFC87080	SRW						
890190	NFC-36-84A	NFC87036	SRW						
890191	NFC-67-84A	NFC87067	SRW						
890192	NFC-369-84B	NFC87369	HRW	55.4	55.6	2.0	650	662	9
890193	AUS18446	AUS86001	SRW						
890194	NE87U107	NEB86107	HRW	60.0	57.1	2.0	865	685	5
890195	NE87U108	NEB86108	HRW	61.2	58.3	2.1	860	680	5
890196	NE87U117	NEB86117	HRW	63.1	58.2	1.6	950	646	4
890197	NE87U120	NEB86120	HRW	64.5	61.0	2.2	925	708	6
890198	PERQUENCO	CHIL8701	SRW						
890199	LANCO	CHIL8702	SRW						
890200	CUNCO	CHIL8703	SRW						
890201	CARAHUE	CHIL8704	SRW						
890202	MALIHUE	CHIL8705	HRW						
890203	STEPHENS	CI017596	SRW						
890204	DALCAHUE	CHIL8706	HRW	56.0	55.8	2.8	675	663	9
890205	TEMU-193-82	CHIL8707	SRW						
890206	TEMU-134-84	CHIL8708	SRW						
890207	TEMU-342-85	CHIL8709	HRW	60.3	59.3	2.5	835	773	6
890208	TEMU-259-86	CHIL8710	HRW						
890209	LONGIMAY	CHIL8711	HRW						
890210	CALBUCO	CHIL8712	HRW						
890211	TCA-26-87	CHIL8713	SRW						
890212	TCA-27-87	CHIL8714	SRW						
890213	TCA-46-87	CHIL8715	HRW						
890214	TCA-57-87	CHIL8716	HRW						
890215	TCA-73-87	CHIL8717	HRW						
890216	WHITMAN	VT080011	TRIT						
890217	VICTORIA	ARC08801	HRW						
890218	MT007811	MT007811	HRW	63.0	63.2	4.3	860	872	4

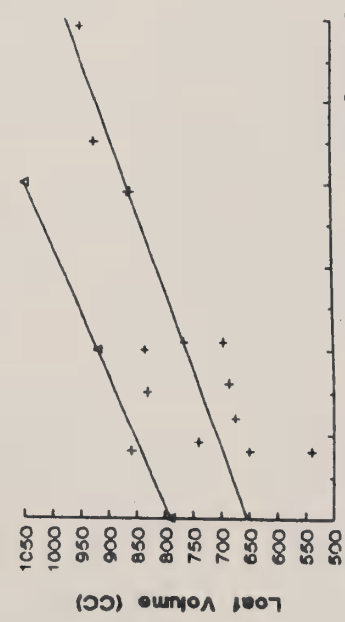
MURSCO 5

PULLMAN, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	RMKS
890189	NFC-80-848	NFC87080	SRW	9.14	8.96	P-TWT, P-FYELD
890190	NFC-36-84A	NFC87036	SRW	9.36	9.34	Q-FYELD
890191	NFC-67-84A	NFC87067	SRW	9.61	9.55	
890192	NFC-369-84B	NFC87369	HRW			P-TIME, P-LVOL, P-BCRGR
890193	AUS18446	AUS86001	SWW	8.82	9.01	
890194	NEB7U107	NEB86107	HRW			P-MTIME, P-LVOL, Q-BCRGR
890195	NEB7U108	NEB86108	HRW			P-MTIME, P-LVOL, Q-BCRGR
890196	NEB7U117	NEB86117	HRW			VP-MTIME, VP-LVOL, Q-S-BCRGR
890197	NEB7U120	NEB86120	HRW			P-FYELD, P-MTIME, P-LVOL, Q-BCRGR
890198	PERQUENCO	CHIL8701	SRW	9.18	9.19	VP-FYELD
890199	LANCO	CHIL8702	SWW	9.23	9.37	
890200	CUNCO	CHIL8703	SWW	9.27	9.37	Q-FYELD
890201	CARAHUE	CHIL8704	SWW	9.00	9.24	Q-FYELD
890202	MALIHUE	CHIL8705	HWW			Q-FYELD
890203	STEPHENS	CI017596	SWW	9.40	9.33	
890204	DALCAHUE	CHIL8706	HWW			P-LVOL, P-BCRGR
890205	TEMU-193-82	CHIL8707	SWW	8.96	9.08	
890206	TEMU-134-84	CHIL8708	SRW	9.23	9.37	
890207	TEMU-342-85	CHIL8709	HRW			P-LVOL, Q-BCRGR
890208	TEMU-259-86	CHIL8710	HRW			Q-FYELD
890209	LONGUIMAY	CHIL8711	HRW			VP-FYELD
890210	CALBUCO	CHIL8712	HRW	8.44	8.26	VP-TWT, VP-FYELD, P-COD1
890211	TCA-26-87	CHIL8713	SRW	8.49	8.29	P-TWT, VP-FYELD, P-COD1
890212	TCA-27-87	CHIL8714	SRW	8.46	8.28	P-FYELD, P-MSCOR, P-COD1
890213	TCA-46-87	CHIL8715	HRW			VP-FYELD, P-MSCOR
890214	TCA-57-87	CHIL8716	HRW			VP-FYELD
890215	TCA-73-87	CHIL8717	HRW			VP-FYELD
890216	WHITMAN	VT080011	TRIT			VP-FYELD
890217	VICTORIA	ARC08801	HRW			P-TWT-VP-FYELD
890218	MT007811	MT007811	HWW			Q-S-BCRGR

LOAF VOLUME VS PROTEIN



COMMENTS: Several of these selections had poor to questionable test weights and flour yields. Several of the hard wheat selections had extremely poor mixing characteristics and were not baked for bread. The bread baking properties of those baked were poor in nearly all selections. Cookie diameters of most soft selections were quite good. Selection (ID No. V0086583) inadvertently was not baked and the flour was disposed of before this was noticed. See "footnotes" and "Remarks".

NURSCO 6

IRRIGON, OR

M.F. KOLDING

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890219 MALCOLM		OR8113	SWW	61.8	73.0	0.40	83.7	10.2	54.7	8.52
890220 CASHUP			SWW	62.7	70.8	0.41	80.4	10.6	53.8	8.76
890221 BASIN			SWW	62.5	69.8	0.42	78.4	9.7	53.7	8.86
890222 TRES		C1017917	CLUB	62.0	72.1	0.40	83.1	11.1	48.4	8.52
890223 OVESON		36	SWW	61.7	71.9	0.44	79.5	10.9	53.6	8.69
890224 OVESON		128	SWW	62.8	68.0	0.39	75.4	11.1	58.1	8.52
890225 OSU 21			SWW	61.5	65.8	0.36	73.9	10.6	56.5	8.37
890226 OSU 28			SWW	61.9	65.6	0.35	74.4	10.2	57.8	8.55
890227 DWARF CLUB			SWW	60.5	73.2	0.42	82.9	10.0	57.8	8.80
890228 .		OR855	SWW	63.5	72.1	0.41	82.7	11.6	55.3	8.92

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 11% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 11% protein.

NURSCO 6

IRRIGON, OR

M.F. KOLDING

LABNUM	VARIETY	IDNO	CLASS	COIC 4/	MTYPE	CAVOL	SCSOR	RMKS
890219	MALCOLM	OR8113	SWW	8.44	2M	1265	73.0	
890220	CASHUP		SWW	8.72	2M	1240	71.0	
890221	BASIN		SWW	8.72	2M	1280	72.0	
890222	TRES	CI017917	CLUB	8.53	2M	1220	68.0	
890223	OVESON	36	SWW	8.68	4M	1160	63.0	P-FASH, Q-MSCOR, P-SCSOR
890224	OVESON	128	SWW	8.54	6M	1205	68.0	P-FYELD, P-MSCOR, Q-SCSOR
890225	OSU 21		SWW	8.33	3M	1220	68.0	VP-FYELD, Q-COD1, Q-SCSOR
890226	OSU 28		SWW	8.46	3M	1240	69.0	VP-FYELD, Q-SCSOR
890227	DWARF CLUB		SWW	8.69	3M	1215	68.0	Q-SCSOR
890228	.	OR855	SWW	8.99	2M	1175	64.0	P-SCSOR

COMMENTS: This nursery averaged 11% flour protein. At this flour protein level, the cookie diameters and sponge cakes were not entirely satisfactory. Most of the selections produced cookies equal to the checks, however sponge cake scores were lower than the checks. See "Remarks".

NURSCO 7

BOARDMAN, OR

M.F. KOLDING

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	MABSC	MTYPE
890229 NEELY		C1017860	HRW	61.9	68.7	0.41	76.9	13.0	64.1	6M
890230 UTE		P1490017	HRW	62.2	70.7	0.35	83.6	10.9	62.9	4M
890231 QUANTUM		QT562	HRW	62.8	71.2	0.39	83.6	12.5	63.7	4H
890232 .		QT542	HRW	63.4	71.2	0.39	84.3	13.3	62.8	4H
890233 WKP CAMAS			HRW	63.7	74.2	0.37	89.6	12.4	63.8	2H

LABNUM	VARIETY	IDNO	CLASS	BABS	BABSC	MTIME	LVOL	LVOLC	BCRGR	RMKS
890229 NEELY		C1017860	HRW	64.3	63.3	3.1	945	883		4
890230 UTE		P1490017	HRW	61.0	62.1	3.5	865	933		4
890231 QUANTUM		QT562	HRW	63.4	62.9	2.4	975	944		3 Q-MTIME
890232 .		QT542	HRW	63.3	62.0	2.5	1000	919		3 Q-MTIME
890233 WKP CAMAS			HRW	63.4	63.0	1.7	905	880		4 P-MTIME, Q-LVOL, Q-S-BCRGR

1/ Observed values corrected to 14% moisture basis.

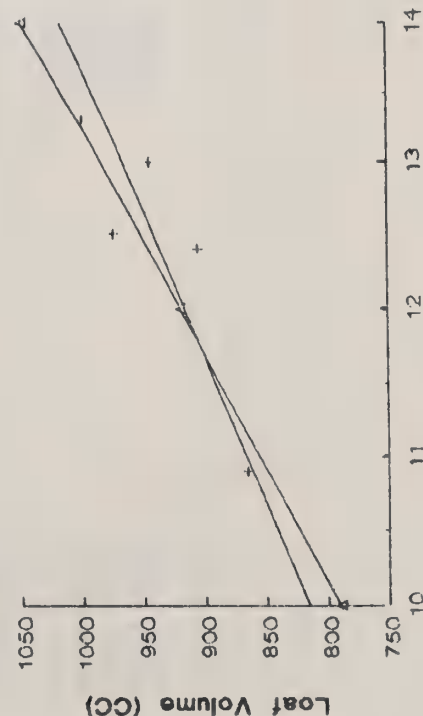
3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

LOAF VOLUME VS PROTEIN



COMMENTS: The check variety Neely had poor milling properties, questionable loaf volume and questionable to satisfactory bread crumb grain. Ute had a questionable flour yield. Quantum selections (QT562 and QT542) were about equal in milling and baking properties. Their bale mixing times are a little short. WKP Camas had excellent flour yield, but quite short mixing time, questionable loaf volume with questionable to satisfactory bread crumb grain.

+ EXP. CROSSES

Δ EXPECTED

NURSCO 9

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890264 K83029		K8800001	HRS	61.0	71.9	0.32	90.8	11.5	62.3	6M
890265 K83030		6/ K8800015	HRS	60.4	70.0	0.26	91.9	11.6	62.8	4M
890266 K83032		K8800023	HRS	60.5	72.8	0.32	91.7	11.1	58.8	8M
890267 K83034		6/ K8800026	HRS	61.4	71.1	0.27	92.6	11.7	63.5	3H
890268 K83034		6/ K8800027	HRS	61.0	69.4	0.27	90.8	11.5	63.9	3H
890269 K83035		K8800037	HRS	61.5	71.7	0.31	91.1	10.9	63.1	3M
890270 K83050		K8800058	HRS	61.0	69.6	0.29	89.9	10.8	61.6	8M
890271 K83266		K8800101	SRS	61.8	71.3	0.29	93.7	10.0	56.4	8M
890272 K83273		6/ K8800104	HRS	60.4	69.0	0.31	88.2	11.6	63.9	4H
890273 K83276		K8800108	HRS	60.7	68.6	0.32	87.3	11.0	62.0	6M
890274 K83308		K8800114	HRS	61.0	70.1	0.26	92.0	11.9	63.5	6M
890275 K83520		K8800138	HRS	60.1	69.4	0.30	89.2	11.1	64.1	7M
890276 K83520		K8800144	HRS	60.3	68.7	0.29	89.0	11.6	64.3	4H
890277 K83521		K8800150	HRS	60.8	72.4	0.30	92.4	12.0	66.2	3H
890278 K83521		K8800155	HRS	60.0	69.4	0.32	88.2	11.4	66.4	5H
890279 K83521		K8800164	HRS	60.0	70.0	0.30	89.8	11.4	66.5	5H
890280 K83521		K8800167	HRS	60.2	70.6	0.29	91.0	12.1	66.8	4H
890281 K83521		K8800169	HRS	60.5	70.0	0.30	89.8	11.4	66.5	5H
890282 K83521		K8800181	HRS	61.2	68.6	0.29	88.9	11.1	66.0	3H
890283 K83521		K8800184	HRS	60.0	68.1	0.32	86.8	12.1	68.6	5H
890284 K83521		K8800186	HRS	60.4	68.1	0.31	87.3	12.5	67.6	3H
890285 K83521		K8800193	HRS	60.1	66.9	0.30	86.6	11.1	64.9	3M
890286 K83521		K8800196	HRS	59.3	67.6	0.32	86.2	12.4	66.7	6H
890287 K83521		K8800197	HRS	59.8	67.9	0.32	86.6	11.8	65.8	6H
890288 K83521		6/ K8800199	HRS	60.0	70.4	0.28	91.3	12.8	65.0	6H
890289 K83568		6/ K8800210	HRS	61.1	70.8	0.32	89.6	12.6	63.8	6M
890290 K83569		K8800212	HRS	61.2	71.5	0.26	93.5	10.9	61.6	6L
890291 K83572		K8800218	HRS	61.4	69.3	0.27	90.7	11.3	63.5	6M
890292 K83572		K8800220	HRS	60.4	70.5	0.29	90.9	10.2	61.6	5M
890293 K83572		K8800221	HRS	60.5	68.9	0.26	90.8	11.2	62.3	6M

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 12% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 12% protein.

NURSCO 9

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
890264	K83029	K8800001	HRS	63.5	64.0	3.2	895	926	4	Q-BCRGR
890265	K83030	K8800015	HRS	64.1	64.5	3.2	940	965	3	
890266	K83032	K8800023	HRS	59.6	60.5	4.6	870	926	4	Q-BCRGR
890267	K83034	K8800026	HRS	64.9	65.2	3.3	950	969	3	
890268	K83034	K8800027	HRS	65.1	65.6	3.2	970	1001	2	
890269	K83035	K8800037	HRS	63.7	64.8	2.3	870	938	7	P-BCRGR, Q-MTIME
890270	K83050	K8800058	HRS	62.1	63.3	4.4	875	949	6	P-BCRGR
890271	K83266	K8800101	SRS	56.1	58.1	4.3	855	975	7	P-BCRGR, Q-BABS
890272	K83273	K8800104	HRS	65.2	65.6	4.8	935	960	2	
890273	K83276	K8800108	HRS	62.7	63.7	3.0	910	972	3	Q-MSCOR
890274	K83308	K8800114	HRS	65.1	65.2	4.7	935	941	4	Q-BCRGR
890275	K83520	K8800138	HRS	64.9	65.8	4.8	885	941	3	
890276	K83520	K8800144	HRS	65.6	66.0	4.0	935	960	4	Q-BCRGR
890277	K83521	K8800150	HRS	67.9	67.9	4.7	945	945	4	Q-BCRGR
890278	K83521	K8800155	HRS	67.5	68.1	5.4	925	962	5	P-BCRGR
890279	K83521	K8800164	HRS	67.6	68.2	5.0	975	1012	3	
890280	K83521	K8800167	HRS	68.6	68.5	3.4	980	974	4	Q-BCRGR
890281	K83521	K8800169	HRS	67.6	68.2	5.6	925	962	5	P-BCRGR
890282	K83521	K8800181	HRS	65.8	66.7	3.1	920	976	6	P-BCRGR
890283	K83521	K8800184	HRS	68.4	68.3	5.2	985	979	3	Q-MSCOR
890284	K83521	K8800186	HRS	68.8	68.3	3.9	950	919	4	Q-MSCOR, Q-BCRGR
890285	K83521	K8800193	HRS	63.2	64.1	2.4	920	976	6	Q-MSCOR, Q-MTIME, P-BCRGR
890286	K83521	K8800196	HRS	67.8	67.4	5.6	1040	1015	3	Q-FYELD, Q-MSCOR
890287	K83521	K8800197	HRS	66.3	66.5	5.2	960	972	4	Q-FYELD, Q-MSCOR, Q-BCRGR
890288	K83521	K8800199	HRS	66.5	65.7	5.5	975	925	3	
890289	K83568	K8800210	HRS	65.1	64.5	4.1	965	928	2	
890290	K83569	K8800212	HRS	61.2	62.3	4.2	795	863	6	P-LVOL, Q-BCRGR
890291	K83572	K8800218	HRS	62.5	63.2	4.2	895	938	4	Q-BCRGR
890292	K83572	K8800220	HRS	60.5	62.3	3.9	805	917	8	P-BCRGR
890293	K83572	K8800221	HRS	62.2	63.0	4.6	860	910	5	P-BCRGR

NURSCO 9

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890294 K83572		K8800227	HRS	61.0	67.8	0.26	89.6	11.6	61.2	4M
890295 SPILLMAN		WA7075	HRS	60.0	70.3	0.29	90.7	12.1	61.2	6M
890296 MCKAY		CI017903	HRS	62.0	70.1	0.29	90.5	10.6	58.9	8M
890297 906R		WPB906	HRS	60.5	68.4	0.27	89.7	12.1	61.3	8M

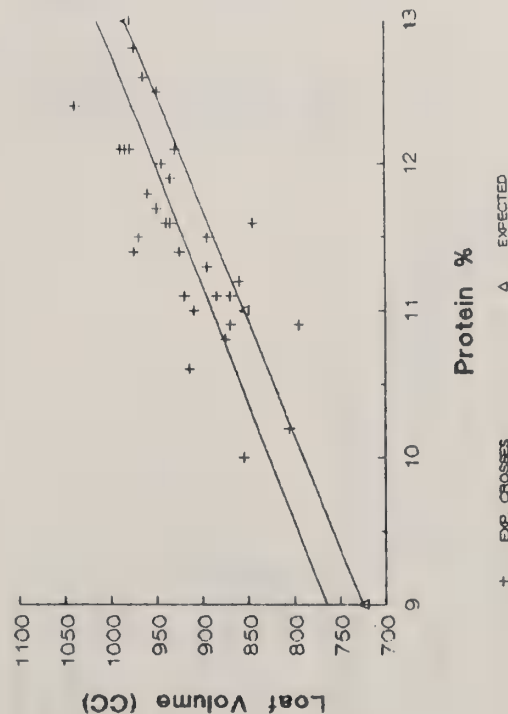
NURSCO 9

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	BABS	BABSC	MTIME	LVOL	LVOLC	BCRGR	RMKS
				1/	3/			4/		
890294 K83572		K8800227	HRS	61.5	61.9	3.1	845	870	5	Q-FYELD, P-LVOL, Q-BCRGR
890295 SPILLMAN		WA7075	HRS	62.0	61.9	3.3	930	924	3	
890296 MCKAY		C1017903	HRS	59.2	60.6	3.7	915	1002	3	
890297 906R		WP8906	HRS	63.1	63.0	4.7	990	984	2	

LOAF VOLUME VS PROTEIN



NURSCO 10

LIND, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890298 MCKAY		CI017903	HRS	60.2	70.5	0.36	83.3	13.7	65.7	6H
890299 SPILLMAN		WA7075	HRS	59.1	70.9	0.45	79.0	14.2	65.6	3H
890300 906R		WPB906	HRS	61.1	70.9	0.44	78.8	14.8	66.1	3H
890301 K81950		K8700019	HRS	59.8	69.4	0.38	80.7	12.9	64.6	3H
890302 K82208		K8700039	HRS	60.1	68.3	0.38	78.0	13.2	65.6	3H
890303 K82239		K8700046	HRS	60.5	71.3	0.25	89.6	14.8	66.5	5H
890304 K82250		K8700048	HRS	58.3	68.5	0.33	80.5	15.0	64.2	2H
890305 K82305		K8700078	HRS	61.6	69.5	0.35	82.2	13.1	67.0	3H
890306 K82320		K8700082	HRS	61.0	68.4	0.36	79.6	13.8	65.4	5H
890307 K82320		K8700083	HRS	60.5	71.4	0.42	81.7	13.9	65.2	5H
890308 K82602		K8700108	HRS	59.3	71.6	0.40	82.5	14.0	65.2	2H
890309 K83065		K8700200	HRS	59.7	68.7	0.34	79.7	14.0	64.0	3H
890310 K83520		K8700206	HRS	59.6	68.5	0.32	81.2	14.9	65.2	3H
890311 KNC00020		CZ84003	HRS	57.9	69.1	0.37	79.5	15.2	64.9	3H
890312 KNC00020		CZ84003	HRS	57.7	69.8	0.40	78.5	15.1	66.7	5H
890313 HP830015/KNC00020 S82-07		C84004	HRS	57.0	68.9	0.35	80.3	14.5	64.4	3H
890314 HP830015/KNC00020 S82-07		C84004	HRS	56.9	71.1	0.29	87.1	14.9	64.9	3H
890315 KNC00030		C84038	HRS	60.7	70.1	0.34	82.2	14.0	65.3	4H
890316 KNC0030		C84038	HRS	60.8	71.4	0.42	80.3	13.4	64.0	4H
890317 KNC0030		C84038	HRS	60.7	68.1	0.41	76.1	14.8	64.6	2H
890318 KNC0030		C84038	HRS	60.0	71.0	0.40	81.5	14.9	64.9	4H
890319 ID00277/KNC30 S82-38		C84039	HRS	60.3	68.9	0.40	78.5	15.5	65.3	4H

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 14% protein.

4/ Observed values corrected to 14% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 10

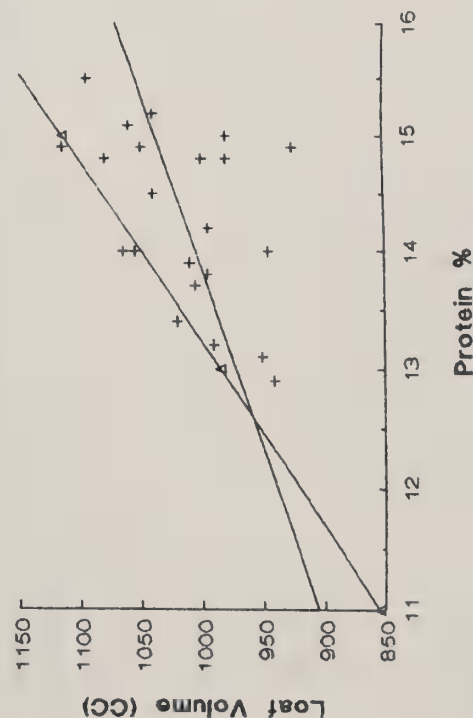
LIND, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
890298 MCKAY		C1017903	HRS	68.1	68.4	9.0	1005	1024		2
890299 SPILLMAN		WA7075	HRS	67.5	67.3	4.3	995	983		3
890300 906R		WP8906	HRS	68.6	67.8	4.0	1000	950		2
890301 K81950		K8700019	HRS	65.2	66.3	4.4	940	1008		2
890302 K82208		K8700039	HRS	66.5	67.3	4.5	990	1040		4 Q-FYELD,Q-BCRGR
890303 K82239		K8700046	HRS	69.0	68.2	6.4	980	930		3 P-LVOL
890304 K82250		K8700048	HRS	66.9	65.9	2.0	980	918		4 Q-FYELD,P-MTIME,P-LVOL,Q-BCRGR
890305 K82305		K8700078	HRS	67.8	68.7	3.2	950	1006		2
890306 K82320		K8700082	HRS	66.9	67.1	4.4	995	1007		3 Q-FYELD
890307 K82320		K8700083	HRS	66.8	66.9	4.7	1010	1016		2
890308 K82602		K8700108	HRS	66.9	66.9	2.1	945	945		4 P-MTIME,P-LVOL,Q-BCRGR
890309 K83065		K8700200	HRS	65.7	65.7	2.5	1065	1065		4 Q-FYELD,Q-BCRGR
890310 K83520		K8700206	HRS	67.8	66.9	3.7	925	869		4 Q-FYELD,P-LVOL,Q-BCRGR
890311 KNC00020		C284003	HRS	67.8	66.6	4.2	1040	966		2 Q-TWT,P-LVOL
890312 KNC00020		C284003	HRS	69.5	68.4	3.8	1060	992		2 Q-TWT,Q-LVOL
890313 HP830015/KNC00020 S82-07		C84004	HRS	66.6	66.1	3.6	1040	1009		2 Q-TWT,Q-FYELD
890314 HP830015/KNC00020 S82-07		C84004	HRS	67.5	66.6	3.5	1050	994		3 Q-TWT,Q-LVOL
890315 KNC00030		C84038	HRS	67.0	67.0	3.5	1055	1055		2
890316 KNC0030		C84038	HRS	65.1	65.7	4.1	1020	1057		2
890317 KNC0030		C84038	HRS	67.1	66.3	2.6	1080	1030		2 Q-FYELD,P-MSCOR
890318 KNC0030		C84038	HRS	67.5	66.6	3.8	1115	1059		2
890319 ID00277/KNC30 S82-38		C84039	HRS	68.5	67.0	3.6	1095	1002		2 Q-FYELD,Q-MSCOR

LOAF VOLUME VS PROTEIN

COMMENTS: This nursery averaged 14% flour protein. The main deficiencies of this nursery were: some selections having questionable flour yields and nearly all selections plus the checks had loaf volumes lower than expected for their flour protein level. All comparisons to the checks for loaf volume took this into account.



NURSCO 11

CONNELL, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	MABSC	MTYPE
						<u>1/</u>		<u>1/</u>	<u>3/</u>	
890320	NORDIC	HS20175	HRS	63.2	72.6	0.40	86.0	13.9	66.8	4H
890321	BUTTE 86	ND000597	HRS	61.0	70.7	0.34	84.3	14.5	65.8	4H
890322	STOA	ND000000	HRS	60.4	71.1	0.39	84.4	15.0	66.5	4H
890323	BUTTE/SD2700	SD002961	HRS	61.1	71.6	0.37	83.6	14.4	68.3	6H
890324	SPILLMAN	WA7075	HRS	59.6	71.3	0.36	84.9	14.2	67.6	3H
890325	906R	WPB906	HRS	60.6	70.5	0.32	85.9	15.4	65.4	5H
890326	NDM00004/NJ000751 S82-62	WA7493	HRS	59.6	68.3	0.34	80.5	13.7	68.3	5H
890327	NDM00004/NK000751 S82-66	WA7494	HRS	59.0	68.3	0.39	78.0	14.1	69.1	5H
890328	NK000751/NDM00011 S82-18	WA7629	HRS	59.6	71.1	0.34	84.6	13.8	67.7	5H
890329	K8500220 K80437	WA7667	HRS	59.3	68.5	0.37	79.8	14.0	69.0	5H
890330	K8500409 K81829	WA7668	HRS	60.2	70.1	0.38	81.2	13.6	67.5	2H
890331	K78550-2 PROSPUR/WA6289	K8300022	HRS	60.2	70.5	0.34	84.5	13.7	66.2	6H
890332	K78560-4 BORAH/WA6389	<u>6/</u> K8300048	HRS	59.3	73.5	0.37	87.1	13.2	66.2	5H
890333	NDM00011/NK000751 S83-10	<u>6/</u> KNC00042	HRS	59.4	71.6	0.41	81.9	13.8	65.9	4H
890334	NK000751/NDM00011 S83-02	KNC00043	HRS	60.0	71.0	0.41	81.6	13.4	66.1	4H
890335	K81715 WPB903/ID167	<u>6/</u> K8500384	HRS	61.8	72.7	0.37	86.0	13.4	66.1	5H
890336	K81829 K80296/NK761011	K8500405	HRS	59.5	71.5	0.42	81.6	14.1	66.3	2H
890337	K81888 NZ66101-6/ID167	K8500442	HRS	61.5	70.1	0.42	78.5	14.1	67.8	3H
890338	K815088 K7905779/K7500399	<u>6/</u> K8600005	HRS	61.8	71.8	0.39	83.4	13.5	67.1	6H
890339	K81829 K80296/NK761011	K8600069	HRS	59.5	71.1	0.40	82.7	13.2	68.1	3H
890340	K81829 K80296/NK761011	K8600078	HRS	59.4	71.8	0.41	83.1	13.5	69.1	3H
890341	K81829 K80296/NK761011	K8600085	HRS	59.2	71.5	0.44	80.8	13.3	69.4	3H
890342	K82206 C1017903/MEX22A-5074M	K8600130	HRS	59.7	70.2	0.41	81.4	14.4	68.2	5H

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 14% protein.

4/ Observed values corrected to 14% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

STATE HARD RED SPRING

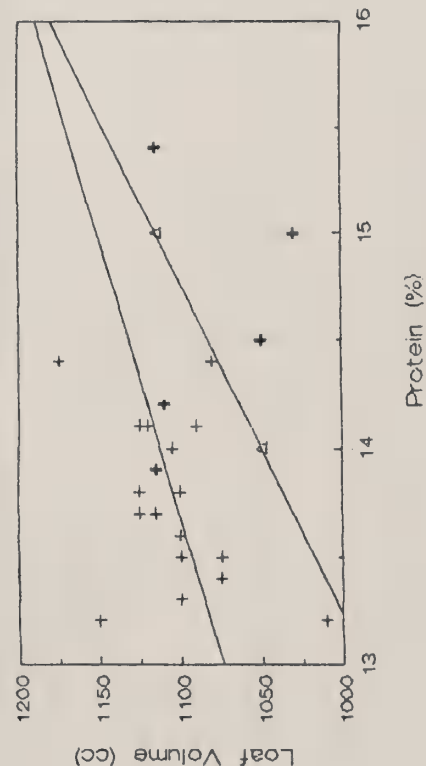
NURSCO 11

CONNELL, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	BABS		BABSC		MTIME	LVOL	LVOLC	BCRGR	RMKS
				1/	3/	1/	3/					
890320	NORDIC	HS820175	HRS	66.4	66.5	66.4	66.5	3.5	1115	1121	2	
890321	BUTTE 86	ND000597	HRS	67.0	66.5	67.0	66.5	3.4	1050	1019	2	
890322	STOA	ND000000	HRS	67.2	66.2	67.2	66.2	3.8	1030	968	2	
890323	BUTTE/SD2700	SD002961	HRS	67.4	67.0	67.4	67.0	6.6	1080	1055	2	
890324	SPILLMAN	WA7075	HRS	67.5	67.3	67.5	67.3	3.2	1110	1098	3	
890325	906R	WP8906	HRS	67.0	65.6	67.0	65.6	4.7	1115	1028	4	
890326	NDM00004/NJ000751 S82-62	WA7493	HRS	66.7	67.0	66.7	67.0	4.8	1115	1134	2	P-FYELD
890327	NDM00004/NK000751 S82-66	WA7494	HRS	66.9	66.8	66.9	66.8	5.5	1125	1119	2	P-FYELD
890328	NK000751/NDM00011 S82-18	WA7629	HRS	66.2	66.4	66.2	66.4	5.0	1125	1137	2	
890329	K8500220 K80437	WA7667	HRS	66.7	66.7	66.7	66.7	6.2	1105	1105	2	P-FYELD
890330	K8500409 K81829	WA7668	HRS	63.8	64.2	63.8	64.2	2.9	1100	1125	3	Q-FYELD
890331	K78550-2 PROSPUR/WA6289	K8300022	HRS	63.1	63.4	63.1	63.4	5.8	1125	1144	2	
890332	K78560-4 BORAH/WA6389	K8300048	HRS	62.6	63.4	62.6	63.4	6.6	1010	1060	2	
890333	NDM00011/NK000751 S83-10	KNC00042	HRS	62.9	63.1	62.9	63.1	3.9	1100	1112	2	Q-MSCOR
890334	NK000751/NDM00011 S83-02	KNC00043	HRS	61.7	62.3	61.7	62.3	3.7	1075	1112	2	Q-MSCOR
890335	K81715 WP8903/1D167	K8500384	HRS	61.7	62.3	61.7	62.3	4.1	1075	1112	2	
890336	K81829 K80296/NK761011	K8500405	HRS	62.6	62.5	62.6	62.5	2.8	1120	1114	3	Q-MSCOR
890337	K81888 NZ66101-6/1D167	K8500442	HRS	63.6	63.5	63.6	63.5	3.8	1090	1084	6	Q-FYELD, P-MSCOR
890338	K815088 K7905779/K7500399	K8600005	HRS	63.3	63.8	63.3	63.8	6.1	1100	1131	1	
890339	K81829 K80296/NK761011	K8600069	HRS	64.0	64.8	64.0	64.8	4.0	1150	1200	2	
890340	K81829 K80296/NK761011	K8600078	HRS	65.3	65.8	65.3	65.8	4.1	1075	1106	2	
890341	K81829 K80296/NK761011	K8600085	HRS	65.4	66.1	65.4	66.1	3.7	1100	1143	2	P-FASH, Q-MSCOR
890342	K82206 C1017903/MEX22A-5074M	K8600130	HRS	66.3	65.9	66.3	65.9	5.0	1175	1150	2	Q-MSCOR

Protein vs Loaf Volume



COMMENTS: This nursery averaged 14% flour protein. For the most part, this nursery had excellent loaf volume and crumb grain. All selections exceeded their expected loaf volume for their flour protein level. A few selections had questionable to poor milling properties. See plot of Loaf Volume vs Protein and "Remarks".

NURSCO 12

LABNUM	VARIETY	BUSHEL5	CLASS	TWT	WMTS	WPROT	WFN	WDSI	FYELD	FASH
890343	NORTH IDAHO REG.1	6084875	SWW	58.1	11.5	9.1	151	1.320	67.1	0.32
890344	SOUTH IDAHO REG.2	6172217	SWW	59.8	9.9	10.4	356	0.095	67.1	0.35
890345	SOUTH IDAHO REG.2	556986	HRW	61.2	10.4	10.6	375	0.067	65.6	0.33
890346	SOUTH IDAHO REG.2	795940	HRS	61.3	9.7	13.3	399	0.089	65.7	0.41
890347	PALOUSE REG.3	1699957	SWW	59.1	11.0	10.6	213	0.402	71.4	0.36
890348	BIG BEND REG.4	6121650	SWW	60.9	9.8	10.9	320	0.062	70.8	0.36
890349	BIG BEND REG.4	1217105	CLUB	62.6	9.2	9.8	329	0.058	74.2	0.40
890350	BIG BEND REG.4	762233	HRW	62.4	9.3	12.2	375	0.069	70.1	0.37
890351	BIG BEND REG.4	443632	HRS	60.2	9.7	13.0	369	0.068	64.3	0.41
890352	WALLA WALLA REG.5	3037811	SWW	59.2	9.6	11.7	245	0.228	74.4	0.44
890353	WALLA WALLA REG.5	111000	CLUB	59.1	8.9	10.9	332	0.073	69.8	0.37
890354	NORTH PENDLETON REG.6	1969971	SWW	60.2	9.3	10.3	339	0.057	72.4	0.36
890355	COLUMBIA RIVER REG.7	3620326	SWW	61.0	10.2	10.1	325	0.067	72.1	0.38
890356	COLUMBIA RIVER REG.7	600106	CLUB	60.2	10.6	8.6	320	0.070	69.9	0.37
890357	WILLAMETTE VALLEY REG.8	843023	SWW	61.0	12.3	9.7	349	0.120	70.1	0.40
890358	WATERVILLE REG.9	2312460	SWW	63.1	9.5	10.6	324	0.056	65.0	0.37
890359	HORSE HEAVEN REG.10	1349230	SWW	62.0	9.8	11.0	339	0.068	68.3	0.39
890360	HORSE HEAVEN REG.10	400000	HRW	62.4	9.8	12.4	359	0.085	70.4	0.37
890361	HORSE HEAVEN REG.10	463933	HRS	61.2	9.9	13.5	374	0.090	71.0	0.43
Soft White Wheat Average		33211520 (total)		60.1	10.2	10.4	287	0.333	69.5	0.36
Club Wheat Average		1928211 (total)		61.7	9.6	9.5	326	0.063	72.6	0.39
Western White Average *				60.3	10.1	10.3	293	0.293	70.0	0.36

* Western White Wheat is a 15% Club, 85% Soft White Wheat mix.

NURSCO 12

LABNUM	VARIETY	BUSHEL5	CLASS	MSCOR	FPROT	MABS	FABS	FPEAK	FSTAB	LVOL
890343	NORTH IDAHO REG.1	6084875	SWW	76.7	7.7	52.4	47.7	1.4	3.4	
890344	SOUTH IDAHO REG.2	6172217	SWW	72.3	8.7	51.3	49.7	1.8	2.7	
890345	SOUTH IDAHO REG.2	556986	HRW	73.9	9.8	58.1	55.1	3.3	12.0	850
890346	SOUTH IDAHO REG.2	795940	HRS	72.0	11.9	61.1	63.9	6.9	10.6	985
890347	PALOUSE REG.3	1699957	SWW	82.2	9.1	52.2	54.1	3.2	4.2	
890348	BIG BEND REG.4	6121650	SWW	82.0	9.3	52.7	54.5	3.1	5.6	
890349	BIG BEND REG.4	1217105	CLUB	85.4	8.7	49.7	53.3	2.1	1.6	
890350	BIG BEND REG.4	762233	HRW	80.9	11.0	63.8	62.8	5.5	7.5	915
890351	BIG BEND REG.4	443632	HRS	70.4	12.1	63.7	65.2	9.0	10.3	1005
890352	WALLA WALLA REG.5	3037811	SWW	84.8	10.8	51.9	56.5	2.0	1.1	
890353	WALLA WALLA REG.5	111000	CLUB	78.4	9.3	52.9	53.6	2.7	3.5	
890354	NORTH PENDLETON REG.6	1969971	SWW	84.4	9.2	52.1	53.9	2.5	4.0	
890355	COLUMBIA RIVER REG.7	3620326	SWW	83.4	9.4	51.1	53.1	3.0	3.4	
890356	COLUMBIA RIVER REG.7	600106	CLUB	80.5	7.7	52.7	53.2	2.0	3.8	
890357	WILLAMETTE VALLEY REG.8	843023	SWW	77.6	8.2	54.3	55.3	1.6	3.0	
890358	WATERVILLE REG.9	2312460	SWW	72.5	9.1	53.7	55.9	2.9	3.2	
890359	HORSE HEAVEN REG.10	1349230	SWW	74.8	9.5	53.9	53.9	3.0	3.8	
890360	HORSE HEAVEN REG.10	400000	HRW	82.7	12.0	63.3	64.5	6.5	13.7	990
890361	HORSE HEAVEN REG.10	463933	HRS	80.9	12.6	64.3	64.7	8.5	10.6	1005
Soft White Wheat Average				78.7	9.0	52.2	52.4	2.3	3.5	
Club Wheat Average				83.5	8.4	50.8	53.3	2.1	2.4	
Western White Average*				79.4	8.9	52.0	52.5	2.3	3.3	

*Western White Wheat is a 15% Club, 85% Soft White Wheat mix.

NURSCO 12

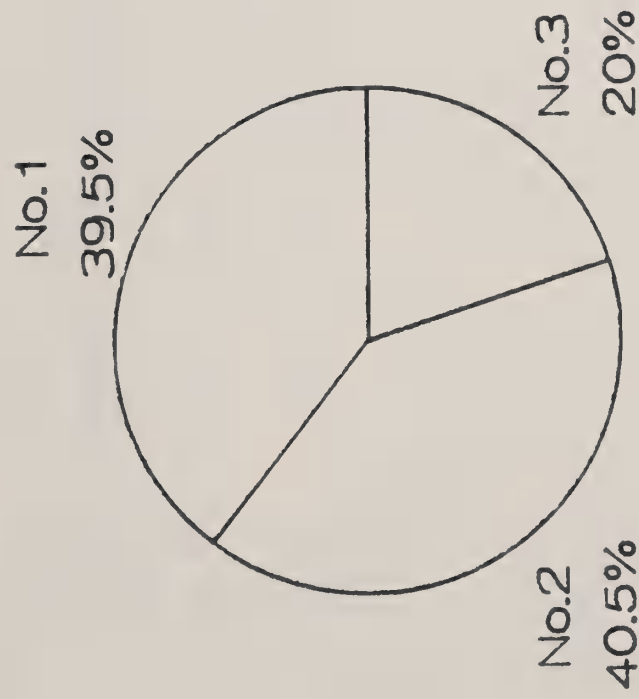
LABNUM	VARIETY	CLASS	MTIME	BCRGR	CODI	CAVOL	SCSOR	WTIN	NOSCOR
890343	NORTH IDAHO REG.1	SWW			9.19	1300	73.0	352	72
890344	SOUTH IDAHO REG.2	SWW			9.10	1295	76.0	353	72
890345	SOUTH IDAHO REG.2	HRW	2.6	5	8.45				
890346	SOUTH IDAHO REG.2	HRS	3.0	3	8.16				
890347	PALOUSE REG.3	SWW			8.96	1330	78.0	348	71
890348	BIG BEND REG.4	SWW			9.02	1325	77.0	349	71
890349	BIG BEND REG.4	CLUB			9.24	1280	76.0	364	73
890350	BIG BEND REG.4	HRW	2.9	3	8.32				
890351	BIG BEND REG.4	HRS	3.4	3	7.85				
890352	WALLA WALLA REG.5	SWW			8.84	1320	78.0	351	72
890353	WALLA WALLA REG.5	CLUB			8.46	1325	76.0	332	72
890354	NORTH PENDLETON REG.6	SWW			8.90	1300	79.0	313	67
890355	COLUMBIA RIVER REG.7	SWW			9.00	1325	79.0	322	70
890356	COLUMBIA RIVER REG.7	CLUB			8.81	1295	75.0	335	71
890357	WILLAMETTE VALLEY REG.8	SWW			8.84	1340	79.0	342	73
890358	WATERVILLE REG.9	SWW			9.19	1300	74.0	343	74
890359	HORSE HEAVEN REG.10	SWW			9.09	1280	73.0	344	70
890360	HORSE HEAVEN REG.10	HRW	2.6	3	7.93				
890361	HORSE HEAVEN REG.10	HRS	3.3	2	7.74				

Soft White Wheat Average
Club Wheat Average
Western White Average*

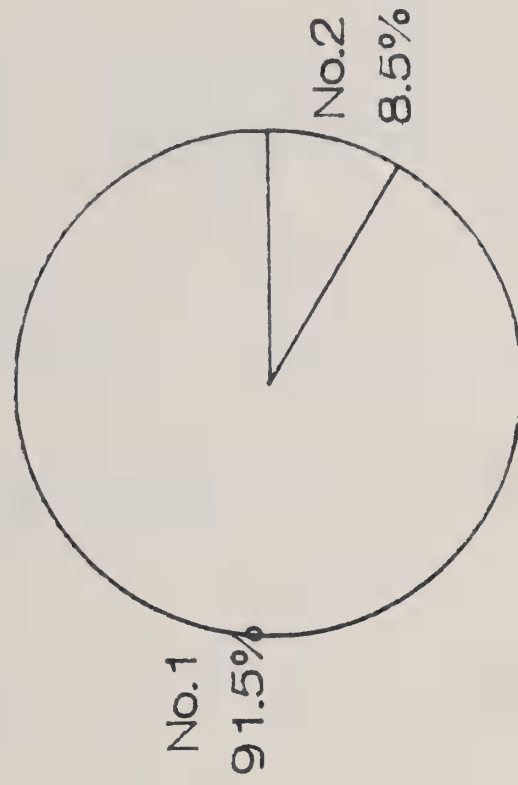
9.05 1310 76.2 345 71
9.06 1287 75.7 353 72
9.05 1307 76.1 346 71

* Western White Wheat is a 15% Club, 85% Soft White Wheat mix.

1989 HARVEST SAMPLE DISTRIBUTION



Soft White Wheat



Club Wheat

**GRADING FACTORS
1989 CROP**

	Test Weight kg/hl (lb/bu)	Dockage %	Heat Damage %	Total Damage %	Foreign Material %	Shrunk and Broken %	Total Defects %	Contras- ting Classes %	Wheat of Other Classes %
White Wheat	76.6 (59.5)	0.70	0	0.9	0.1	1.2	2.1	0	0
Club Wheat	77.9 (60.5)	1.09	0	0	0	1.8	1.9	0	0

NURSCO 13

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890362 MAVERLY		C1017911	SWS	56.4	69.6	0.33	82.1	8.8	53.9	8.70
890363 COMBIRD S./2 STERLING		6/ ID000312	SWS	58.9	71.4	0.30	86.7	8.7	54.1	9.02
890364 EDWALL		P1477919	SWS	55.0	69.7	0.26	84.6	8.5	54.8	8.98
890365 PENAWAWA		P1495916	SWS	57.4	66.8	0.30	78.3	8.3	53.5	9.02
890366 WAKANZ		P1506352	SWS	57.1	69.6	0.29	83.5	8.9	54.7	9.25
890367 K78504/K74129-33//K7806645 NZ S.05		WA7176	SWS	56.7	68.0	0.33	79.0	8.7	52.7	9.09
890368 WADUAL		WA7187	SWS	57.8	70.1	0.26	86.1	9.2	56.0	9.01
890369 K7400315/POTAM 70 S.47		WA7496	SWS	55.0	70.6	0.31	84.2	8.7	51.4	9.35
890370 K74129-33//WA6395		WA7497	SWS	57.2	70.0	0.29	84.6	8.9	52.6	9.16
890371 K80025/ID144		K8605043	SWS	56.8	67.4	0.26	82.6	8.5	52.4	9.15
890372 K80063/K80187		6/ K8605054	SWS	56.7	69.2	0.26	85.2	8.4	53.3	9.48
890373 K80063/K80187		K8605057	SWS	54.8	68.3	0.29	80.9	8.6	52.3	9.20
890374 K80184/K7905769		K8605068	SWS	59.1	66.7	0.28	80.5	8.4	53.0	9.23
890375 K80413/ID167		K8605100	SWS	59.0	70.7	0.27	86.4	9.5	54.0	8.91
890376 K80413/ID167		K8605101	SWS	56.9	68.3	0.28	82.3	8.3	52.7	9.45
890377 K80413/ID167		K8605102	SWS	55.3	67.0	0.26	80.3	8.4	53.6	9.52
890378 SR15221//WA6711		K8605123	SWS	56.9	70.8	0.30	84.7	9.0	53.6	9.18
890379 K79299/K7905328		K805143	SWS	54.7	66.4	0.27	80.0	8.3	52.1	9.09
890380 ID0190/K7905138		K8600196	SWS	56.6	67.1	0.27	80.9	7.9	54.8	9.10
890381 ID0190/K7905317		K8600214	SWS	58.9	68.8	0.32	80.9	8.9	53.8	9.29
890382 ID0190/K79291		K8600224	SWS	57.0	66.1	0.28	79.3	8.9	54.5	9.27

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

C.F. KONZAK

PULLMAN, WA

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	CAVOL	SCSOR	WTIN	NOSCOR	RMKS
				4/						
890362	MAVERLY	C1017911	SWS	8.68	3M	1295	71.0	355	78	
890363	COMBIRD S./2 STERLING	ID000312	SWS	8.99	3M	1325	73.0	356	80	
890364	EDWALL	PI477919	SWS	8.92	3M	1310	76.0	326	77	
890365	PENAWANA	PI495916	SWS	8.95	4L	1375	78.0	318	75	
890366	WAKANZ	PI506352	SWS	9.24	2M	1315	75.0	341	75	
890367	K78504/K74129-33//K7806645 NZ S.05	WA7176	SWS	9.05	2M	1390	80.0	340	75	Q-FYELD
890368	WADUAL	WA7187	SWS	9.03	6M	1360	78.0	329	72	
890369	K7400315/POTAM 70 S.47	WA7496	SWS	9.32	5M	1285	72.0	341	75	Q-SCSOR
890370	K74129-33/WA6395	WA7497	SWS	9.15	4M	1300	72.0	358	77	Q-SCSOR
890371	K80025/ID144	K8605043	SWS	9.09	5M	1365	81.0	341	73	P-Q-FYELD
890372	K80063/K80187	K8605054	SWS	9.41	3M	1405	82.0	352	73	
890373	K80063/K80187	K8605057	SWS	9.16	5M	1375	80.0	325	73	Q-FYELD
890374	K80184/K7905769	K8605068	SWS	9.16	6M	1345	78.0	325	78	P-Q-FYELD
890375	K80413/ID167	K8605100	SWS	8.97	6M	1305	76.0	322	72	Q-NOSCOR
890376	K80413/ID167	K8605101	SWS	9.37	4L	1325	74.0	317	74	Q-FYELD
890377	K80413/ID167	K8605102	SWS	9.46	4L	1415	80.0	327	74	P-Q-FYELD
890378	SRI5221/WA6711	K8605123	SWS	9.18	3M	1310	75.0	337	75	
890379	K79299/K7905328	K805143	SWS	9.01	3L	1360	77.0	343	77	P-FYELD
890380	ID0190/K7905138	K8600196	SWS	8.98	6L	1360	79.0	344	77	P-Q-FYELD
890381	ID0190/K7905317	K8600214	SWS	9.28	2M	1350	77.0	351	75	Q-FYELD
890382	ID0190/K79291	K8600224	SWS	9.26	7M	1310	72.0	335	75	P-FYELD

COMMENTS: This nursery averaged 9% flour protein. The major deficiency of this nursery was poor to questionable flour yield. Several selections had good cookie spread and noodle scores. Several selections had excellent sponge volumes and scores. See "Remarks" and "Footnotes".

NURSCO 14

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYLD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890383	PENEWAWA	PI495916	SWS	57.2	66.4	0.34	75.8	10.2	51.9	9.34
890384	WAKANZ	PI506352	SWS	56.7	69.0	0.30	83.2	9.6	50.5	9.33
890385	(N163//G25//MERAV,SEL45)/K74102	K8705020	SWS	58.0	68.5	0.28	82.4	10.3	52.4	9.24
890386	(N163//G25//MERAV,SEL45)/K74102	K8705022	SWS	58.9	67.2	0.28	79.3	9.5	52.8	9.59
890387	ID0190/WA6753	5/ K8705081	SWS	59.0	70.3	0.27	84.5	9.6	52.2	9.70
890388	ID0190/WA6827	K8705083	SWS	57.3	70.3	0.27	84.0	9.5	51.3	9.45
890389	ID0190/WA06833	6/ K8705089	SWS	57.6	68.1	0.26	81.8	10.0	50.7	9.69
890390	K81448/K81442	6/ K8705096	SWS	57.1	69.3	0.27	83.2	8.9	52.2	9.59
890391	POTAM 70/K7905652	6/ K8705112	SWS	56.3	69.7	0.26	84.7	8.9	52.2	9.79
890392	POTAM 70/C1017859	K8705113	SWS	56.5	68.5	0.26	81.3	9.3	52.4	9.40
890393	WA6829/ID0190	K8705129	SWS	58.4	67.2	0.26	80.9	9.4	52.8	9.51
890394	WA6833/WA6830	K8705177	SWS	56.6	66.8	0.27	78.9	9.2	52.5	9.51
890395	WA6833/WA6830	K8705178	SWS	58.0	66.2	0.24	80.5	9.0	52.1	9.68
890396	WA6833/WA6830	K8705181	SWS	58.3	68.4	0.27	82.1	9.6	52.3	9.41
890397	K82390/K82353	K8705210	SWS	57.6	64.9	0.24	78.9	9.5	51.7	9.32
890398	K8512/K82376	K8705216	SWS	57.8	67.2	0.28	79.7	9.7	52.8	9.26
890399	K82359/K79251-36	K8705286	SWS	59.4	63.9	0.26	74.3	9.9	53.3	9.34
890400	K82382/K82407	K8705301	SWS	59.8	68.8	0.32	80.3	9.8	52.1	9.83
890401	K82382/K82407	6/ K8705303	SWS	59.9	69.0	0.24	84.6	9.6	53.1	9.45
890402	K82447/K82450	6/ K8705342	SWS	56.1	69.5	0.26	83.2	9.2	52.0	9.41
890403	K82447/K82450	K8705343	SWS	56.0	69.2	0.27	83.4	9.0	52.7	9.44
890404	K82447/K82450	5/ K8705344	SWS	56.2	71.7	0.28	85.7	8.6	52.8	9.61

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

C.F. KONZAK

PULLMAN, WA

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	CAVOL	SCSOR	RMKS
890383	PENAWAWA			4/				
890384	WAKANZ	P1495916	SWS	9.47	2M	1345	78.0	
890385	(N163//G25//MERAV, SEL45)/K74102	P1506352	SWS	9.39	2M	1365	80.0	
890386	(N163//G25//MERAV, SEL45)/K74102	K8705020	SWS	9.38	4M	1335	80.0	
890387	ID0190/WA6753	K8705022	SWS	9.64	3L	1355	79.0	
		K8705081	SWS	9.77	3M	1370	80.0	
890388	ID0190/WA6827	K8705083	SWS	9.51	3L	1350	77.0	
890389	ID0190/WA06833	K8705089	SWS	9.80	3M	1395	83.0	
890390	K81448/K81442	K8705096	SWS	9.58	3L	1385	81.0	
890391	POTAM 70/K7905652	K8705112	SWS	9.78	3L	1360	78.0	
890392	POTAM 70/C1017859	K8705113	SWS	9.43	4L	1360	79.0	
890393	WA6829/ID0190	K8705129	SWS	9.56	3L	1360	79.0	
890394	WA6833/WA6830	K8705177	SWS	9.53	6L	1380	80.0	Q-MTIME
890395	WA6833/WA6830	K8705178	SWS	9.68	4L	1375	81.0	
890396	WA6833/WA6830	K8705181	SWS	9.48	3M	1305	75.0	Q-SCSOR
890397	K82390/K82353	K8705210	SWS	9.38	3L	1400	83.0	Q-FYELD
890398	K8512/K82376	K8705216	SWS	9.34	3M	1310	76.0	Q-SCSOR
890399	K82359/K79251-36	K8705286	SWS	9.44	4M	1360	81.0	Q-FYELD
890400	K82382/K82407	K8705301	SWS	9.91	6L	1375	82.0	
890401	K82382/K82407	K8705303	SWS	9.52	4L	1360	82.0	
890402	K82447/K82450	K8705342	SWS	9.43	5L	1350	80.0	
890403	K82447/K82450	K8705343	SWS	9.44	4L	1285	74.0	Q-SCSOR, Q-CAVOL
890404	K82447/K82450	K8705344	SWS	9.57	3L	1385	83.0	

COMMENTS: This nursery was exposed to rain and experienced some preharvest sprout damage. This led to lowered TWT and FYELD as well as affecting the baking properties.

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PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	COOI
890405	K83160/COKER 80-28, COKER 68-15	6/K8805023	SWS	54.7	70.2	0.27	93.5	9.8	52.2	9.75
890406	K82306/(K82319/WPB906/WA6823	K8805040	SWS	55.1	66.9	0.27	89.3	8.9	52.1	9.36
890407	V763-2-J2-B1/K82582/K805705/K82385	K8805043	SWS	56.4	65.8	0.27	87.9	10.3	54.8	9.10
890408	V763-2-J2-B1/K82582/K805705/K82385	K8805045	SWS	55.6	65.5	0.26	88.1	9.3	52.5	9.65
890409	ID0232/K82492, WA6831/ID0190	6/K8805049	SWS	57.9	68.8	0.29	90.4	9.5	53.3	9.51
890410	ID0232/K82492, WA6831/ID0190	K8805051	SWS	55.4	68.3	0.28	90.5	9.5	52.2	9.49
890411	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805052	SWS	57.2	68.7	0.31	89.1	8.9	52.7	9.59
890412	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805053	SWS	57.4	68.8	0.29	90.5	9.6	52.1	9.70
890413	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805054	SWS	57.7	65.6	0.30	85.7	9.4	53.2	9.35
890414	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805058	SWS	58.4	68.6	0.30	89.5	9.1	52.1	9.85
890415	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805059	SWS	58.3	70.1	0.29	92.1	9.6	52.5	9.49
890416	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805062	SWS	56.4	66.5	0.30	86.9	9.4	50.4	9.51
890417	K7807010/ID0190, ID0046/7/ID0045/6/2 A659	K8805076	SWS	58.1	68.7	0.28	90.9	9.2	51.9	9.98
890418	K82334/(K82370, ID0190/K905138	K8805113	SWS	57.9	70.1	0.29	92.1	8.9	51.8	9.85
890419	K82490/(K82496, WA6831/PAVON 76	K8805161	SWS	57.2	68.3	0.31	88.5	9.5	52.3	9.74
890420	K82490/(K82496, WA6831/PAVON 76	K8805162	SWS	56.7	68.5	0.30	89.4	9.5	52.3	9.52
890421	K82490/(K82498, WA6831/C1017911	5/K8805173	SWS	56.6	68.9	0.25	93.1	8.7	51.9	9.74
890422	K82490/(K82498, WA6831/C1017911	5/K8805178	SWS	57.6	71.8	0.26	96.2	8.8	51.7	9.82
890423	K82491/(K82496, WA6831/PAVON 76	K8805184	SWS	56.3	65.9	0.26	88.6	8.3	51.5	9.70
890424	K82491/(K82497, WA6831/C1017859	K8805189	SWS	56.7	67.6	0.26	90.8	8.4	50.6	9.70
890425	K82491/(K82497, WA6831/C1017859	K8805190	SWS	57.9	68.8	0.28	91.1	9.1	50.6	9.35
890426	K82491/(K82497, WA6831/C1017859	6/K8805192	SWS	58.1	69.4	0.27	92.5	9.7	50.9	9.62
890427	K82491/(K82497, WA6831/C1017859	5/K8805195	SWS	58.0	68.1	0.26	91.4	9.0	53.0	9.81
890428	K82491/(K82497, WA6831/C1017859	5/K8805196	SWS	57.9	68.8	0.28	91.1	9.7	53.0	10.02
890429	K82491/(K82497, WA6831/C1017859	6/K8805197	SWS	57.8	68.3	0.28	90.5	9.0	51.7	9.90
890430	K82491/(K82497, WA6831/C1017859	5/K8805200	SWS	57.4	69.3	0.27	92.4	9.0	51.5	9.98
890431	K82491/(K82497, WA6831/C1017859	6/K8805203	SWS	57.8	68.0	0.28	90.1	9.2	52.0	9.90
890432	K82491/(K82497, WA6831/C1017859	6/K8805204	SWS	55.1	69.7	0.31	90.4	8.9	52.6	9.66
890433	PENEWAHA	P1495916	SWS	57.6	66.8	0.31	86.7	8.5	52.2	9.26
890434	EDWALL	P1477919	SWS	55.4	68.0	0.27	90.7	8.9	52.7	9.57

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PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	COIC 4/	MTYPE	RMKS
890405	K83160/COKER 80-28, COKER 68-15	K8805023	SWS	9.84	6L	
890406	K82306/(K82319/HPB906/WA6823	K8805040	SWS	9.35	2M	
890407	W763-2-J2-B1/K82582/K805705/K82385	K8805043	SWS	9.24	7M	
890408	W763-2-J2-B1/K82582/K805705/K82385	K8805045	SWS	9.68	3M	
890409	ID0232/K82492, WA6831/ID0190	K8805049	SWS	9.57	2L	
890410	ID0232/K82492, WA6831/ID0190	K8805051	SWS	9.54	3L	
890411	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805052	SWS	9.58	3L	
890412	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805053	SWS	9.77	3L	
890413	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805054	SWS	9.39	5M	
890414	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805058	SWS	9.86	3L	
890415	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805059	SWS	9.55	2M	
890416	ID0232/WA6920, POTAM 70/(WA6021, BRONZE/KO	K8805062	SWS	9.56	2L	
890417	K7807010/ID0190, ID0046/7/ID0045/6/2 A659	K8805076	SWS	10.00	6L	
890418	K82334/(K82370, ID0190/K905138	K8805113	SWS	9.84	2L	
890419	K82490/(K82496, WA6831/PAVON 76	K8805161	SWS	9.79	2L	
890420	K82490/(K82496, WA6831/PAVON 76	K8805162	SWS	9.58	3L	
890421	K82490/(K82498, WA6831/CI017911	K8805173	SWS	9.70	3L	
890422	K82490/(K82498, WA6831/CI017911	K8805178	SWS	9.80	3L	
890423	K82491/(K82496, WA6831/PAVON 76	K8805184	SWS	9.62	2L	
890424	K82491/(K82497, WA6831/CI017859	K8805189	SWS	9.63	2L	
890425	K82491/(K82497, WA6831/CI017859	K8805190	SWS	9.36	3L	
890426	K82491/(K82497, WA6831/CI017859	K8805192	SWS	9.70	2M	
890427	K82491/(K82497, WA6831/CI017859	K8805195	SWS	9.81	2M	
890428	K82491/(K82497, WA6831/CI017859	K8805196	SWS	10.10	3M	
890429	K82491/(K82497, WA6831/CI017859	K8805197	SWS	9.90	3L	
890430	K82491/(K82497, WA6831/CI017859	K8805200	SWS	9.98	3L	
890431	K82491/(K82497, WA6831/CI017859	K8805203	SWS	9.92	3L	
890432	K82491/(K82497, WA6831/CI017859	K8805204	SWS	9.65	2L	
890433	PENEWAHA	PI495916	SWS	9.21	6L	
890434	EDWALL	PI477919	SWS	9.56	3L	

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 9% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 9% protein.

COMMENTS:

This nursery included surprisingly good quality performance considering the low test weight of the samples.

None of the cultivars was extremely deficient in any respect, although this is difficult to detect due to the low overall test weights. The most promising candidates are flagged.

NURSCO 16

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890435	GOLDEN 86	GP006074	HWS	62.7	71.7	0.27	93.2	11.2	59.8	6M
890436	KLASIC	NKF08022	HWS	61.8	70.0	0.27	91.4	11.2	57.8	8M
890437	PENEHAWA	PI495916	SWS	60.4	65.8	0.31	84.9	10.4	54.4	2M
890438	HADJUAL	WA7187	SWS	61.2	70.0	0.26	93.9	10.9	57.3	6M
890439	K82512/K82376	K8705217	SWS	62.1	70.1	0.32	90.3	10.7	53.8	4M
890440	K78512/K79299	K8705264	HWS	59.3	66.5	0.35	83.5	9.3	59.3	6L
890441	K82355/K82373	K8705266	HWS	59.0	67.5	0.34	85.1	10.0	59.1	8M
890442	K82355/K82373	K8705267	HWS	58.4	67.1	0.31	86.2	9.9	59.3	8M
890443	K82366/K79300 K8705294		SWS	60.7	68.3	0.26	90.1	10.6	57.5	4M
890444	K82366/K79300 K8705297		SWS	61.4	70.2	0.29	92.2	11.1	57.1	3M
890445	K82385/K82407	K8705326	SWS	62.1	65.5	0.29	85.6	10.5	57.0	3M

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 11% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 11% protein.

NURSCO 16

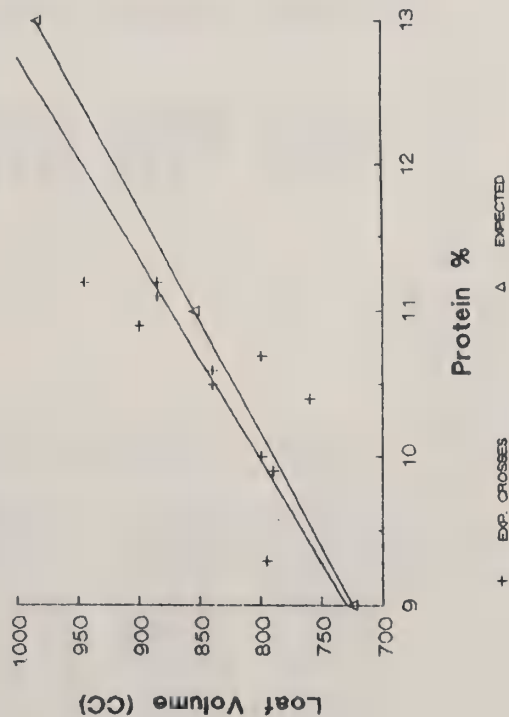
PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOL 4/	BCRGR	RMKS
890435	GOLDEN 86	GP006074	HWS	61.7	61.5	3.6	885	873		3
890436	KLASIC	NKF08022	HWS	59.7	59.5	5.7	945	933		3
890437	PENEWANA	PI495916	SWS	55.5	56.1	2.1	760	797		9
890438	WADUAL	WA7187	SWS	58.9	59.0	3.9	900	906		2
890439	K82512/K82376	K8705217	SWS	55.2	55.5	4.1	800	818		6 P-LVOL,Q-BCRGR
890440	K78512/K79299	K8705264	HWS	62.3	64.0	5.4	795	900		7 P-FYELD,Q-BCRGR
890441	K82355/K82373	K8705266	HWS	61.8	62.8	5.2	800	862		8 P-FYELD,P-BCRGR
890442	K82355/K82373	K8705267	HWS	59.9	61.0	4.6	790	858		8 Q-TWT,P-FYELD,P-BCRGR
890443	K82366/K79300 K8705294		SWS	59.8	60.2	4.3	840	865		6 Q-FYELD,Q-BCRGR
890444	K82366/K79300 K8705297		SWS	58.9	58.8	3.0	885	879		4 Q-BCRGR
890445	K82385/K82407	K8705326	SWS	58.2	58.7	3.4	840	871		5 P-FYELD,Q-BCRGR

COMMENTS: This nursery averaged 11% flour protein. The two major deficiencies of the selections were questionable to poor flour yield and bread crumb grain. Loaf volume of nearly all selections was above that expected for their flour protein level.

LOAF VOLUME VS PROTEIN



USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

DUAL PURPOSE

MURSCO 17

LIND, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYLD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890446	K74135/POTAM 70 s.15	WA7186	SWS	61.1	70.9	0.39	80.0	10.2	58.6	6M
890447	K74135/POTAM 70 s.24	WA7186	SWS	60.2	69.2	0.39	76.3	10.3	58.6	6M
890448	K74135/POTAM 70 s.25	WA7186	SWS	60.7	69.8	0.35	79.0	9.9	58.6	4M
890449	K74135/POTAM 70 s.30	WA7186	SWS	59.9	69.1	0.38	77.2	10.1	60.2	4M
890450	K74135/POTAM 70 s.34	WA7186	SWS	61.0	70.0	0.38	78.3	10.1	59.9	4M
890451	K74135/POTAM 70 s.35	WA7186	SWS	61.2	68.5	0.37	77.7	9.7	59.5	4M
890452	K74135/POTAM 70 s.45	WA7186	SWS	60.7	70.0	0.38	79.5	9.7	59.1	4M
890453	K74135/POTAM 70 s.48	WA7186	SWS	60.9	68.6	0.37	77.5	9.8	59.1	4M
890454	WADUAL	WA7187	SWS	61.1	68.3	0.38	75.6	10.8	61.9	4H
890455	K74182/POTAM 70 s.04	WA7187	SWS	60.7	69.8	0.37	79.6	10.8	61.1	5H
890456	K74182/POTAM 70 s.05	WA7187	SWS	60.8	68.8	0.37	77.3	11.0	61.3	4H
890457	K74182/POTAM 70 s.06	WA7187	SWS	61.8	67.8	0.36	77.5	10.8	61.5	5H
890458	K74182/POTAM 70 s.07	WA7187	SWS	61.8	67.3	0.35	75.5	11.2	62.4	5H
890459	K74182/POTAM 70 s.09	WA7187	SWS	61.0	66.1	0.35	74.2	11.1	62.5	5H
890460	K74182/POTAM 70 s.12	WA7187	SWS	61.0	66.0	0.36	74.4	11.0	61.8	4H
890461	K74182/POTAM 70 s.15	WA7187	SWS	61.0	67.7	0.37	76.9	10.6	61.1	5H
890462	K74182/POTAM 70 s.16	WA7187	SWS	61.6	69.4	0.36	79.6	10.9	62.8	5H
890463	K74182/POTAM 70 s.17	WA7187	SWS	61.2	70.5	0.35	81.8	11.0	61.7	5H
890464	K74182/POTAM 70 s.18	WA7187	SWS	59.3	70.4	0.37	81.7	10.7	62.0	5H
890465	K74182/POTAM 70 s.20	WA7187	SWS	60.8	69.8	0.39	78.9	10.8	62.1	5H
890466	K74182/POTAM 70 s.21	WA7187	SWS	62.3	72.6	0.38	84.0	10.1	59.3	6M
890467	K74182/POTAM 70 s.22	WA7187	SWS	61.0	70.8	0.37	80.0	10.8	61.8	4H
890468	K74182/POTAM 70 s.23	WA7187	SWS	61.0	71.1	0.37	80.9	11.0	62.2	5H
890469	K74182/POTAM 70 s.24	WA7187	SWS	59.7	70.4	0.38	79.7	11.1	62.8	5H
890470	K74182/POTAM 70 s.28	WA7187	SWS	63.0	69.9	0.37	79.9	10.7	63.2	5H
890471	K74182/POTAM 70 s.33	WA7187	SWS	62.7	68.8	0.38	78.1	11.1	62.2	5H
890472	K74182/POTAM 70 s.38	WA7187	SWS	61.0	68.6	0.38	76.5	11.2	61.3	5H
890473	K74182/POTAM 70 s.39	WA7187	SWS	61.4	70.7	0.38	80.8	11.1	61.0	4H
890474	K74182/POTAM 70 s.40	WA7187	SWS	62.1	71.7	0.38	81.7	11.3	63.2	5H
890475	K74182/POTAM 70 s.41	WA7187	SWS	58.0	69.6	0.43	75.9	10.6	61.7	8M

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 11% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 11% protein.

NURSCO 17

LIND, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
890446	K74135/POTAM 70 s.15	WA7186	SWS	57.0	57.8	4.2	975	1023	2
890447	K74135/POTAM 70 s.24	WA7186	SWS	57.1	57.8	4.9	990	1032	2
890448	K74135/POTAM 70 s.25	WA7186	SWS	56.7	57.8	4.1	945	1011	2
890449	K74135/POTAM 70 s.30	WA7186	SWS	58.5	59.4	4.7	940	994	4
890450	K74135/POTAM 70 s.34	WA7186	SWS	58.2	59.1	4.3	985	1039	2
890451	K74135/POTAM 70 s.35	WA7186	SWS	57.4	58.7	4.0	935	1013	4
890452	K74135/POTAM 70 s.45	WA7186	SWS	57.0	58.3	3.5	950	1028	3
890453	K74135/POTAM 70 s.48	WA7186	SWS	57.1	58.3	3.9	945	1017	2
890454	WADUAL	WA7187	SWS	60.9	61.1	4.6	1010	1022	2
890455	K74182/POTAM 70 s.04	WA7187	SWS	60.1	60.3	6.2	995	1007	5
890456	K74182/POTAM 70 s.05	WA7187	SWS	60.5	60.5	4.6	1000	1000	2
890457	K74182/POTAM 70 s.06	WA7187	SWS	60.5	60.7	5.1	1010	1022	3
890458	K74182/POTAM 70 s.07	WA7187	SWS	61.8	61.6	6.4	1000	988	4
890459	K74182/POTAM 70 s.09	WA7187	SWS	61.8	61.7	5.8	1000	994	4
890460	K74182/POTAM 70 s.12	WA7187	SWS	61.0	61.0	4.6	1025	1025	3
890461	K74182/POTAM 70 s.15	WA7187	SWS	59.9	60.3	5.8	965	989	3
890462	K74182/POTAM 70 s.16	WA7187	SWS	61.9	62.0	6.5	960	966	3
890463	K74182/POTAM 70 s.17	WA7187	SWS	60.9	60.9	7.7	965	965	2
890464	K74182/POTAM 70 s.18	WA7187	SWS	60.9	61.2	6.5	995	1013	3
890465	K74182/POTAM 70 s.20	WA7187	SWS	61.1	61.3	6.4	975	987	3
890466	K74182/POTAM 70 s.21	WA7187	SWS	57.6	58.5	4.5	935	989	2
890467	K74182/POTAM 70 s.22	WA7187	SWS	60.8	61.0	5.5	940	952	3
890468	K74182/POTAM 70 s.23	WA7187	SWS	61.4	61.4	6.7	980	980	2
890469	K74182/POTAM 70 s.24	WA7187	SWS	62.1	62.0	6.7	1040	1034	3
890470	K74182/POTAM 70 s.28	WA7187	SWS	62.1	62.4	6.8	1015	1033	2
890471	K74182/POTAM 70 s.33	WA7187	SWS	61.5	61.4	7.0	1055	1049	2
890472	K74182/POTAM 70 s.38	WA7187	SWS	60.7	60.5	5.9	1050	1038	3
890473	K74182/POTAM 70 s.39	WA7187	SWS	60.3	60.2	5.8	985	979	2
890474	K74182/POTAM 70 s.40	WA7187	SWS	62.7	62.4	5.7	1085	1067	3
890475	K74182/POTAM 70 s.41	WA7187	SWS	60.5	60.9	6.1	1005	1029	3

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LABNUM	VARIETY	IDNO	CLASS	COD1	COD1C 4/	CAVOL	SCSOR	WTIN	NOSCOR	RMKS
890446	K74135/POTAM 70 s.15	WA7186	SWS	8.87	8.79	1225	69.0	343	72	P-CAVOL, P-SCSOR
890447	K74135/POTAM 70 s.24	WA7186	SWS	8.85	8.77	1230	69.0	333	71	P-CAVOL, P-SCSOR, Q-NOSCOR
890448	K74135/POTAM 70 s.25	WA7186	SWS	8.59	8.47	1220	67.0	343	72	Q-COD1, P-CAVOL, P-SCSOR
890449	K74135/POTAM 70 s.30	WA7186	SWS	8.75	8.65	1200	66.0	338	71	Q-S-BCRGR, P-CAVOL, P-SCSOR, Q-NOSCOR
890450	K74135/POTAM 70 s.34	WA7186	SWS	8.84	8.74	1255	73.0	343	72	
890451	K74135/POTAM 70 s.35	WA7186	SWS	8.64	8.49	1235	71.0	340	70	Q-FYELD, Q-S-BCRGR, Q-COD1, Q-SCSOR
890452	K74135/POTAM 70 s.45	WA7186	SWS	8.75	8.61	1195	67.0	342	72	P-CAVOL, P-SCSOR
890453	K74135/POTAM 70 s.48	WA7186	SWS	8.95	8.82	1175	67.0	342	72	Q-FYELD, P-SCSOR
890454	WADUAL	WA7187	SWS	8.75	8.73	1185	69.0	352	74	
890455	K74182/POTAM 70 s.04	WA7187	SWS	8.64	8.62	1320	77.0	356	74	
890456	K74182/POTAM 70 s.05	WA7187	SWS	8.70	8.70	1305	77.0	374	74	
890457	K74182/POTAM 70 s.06	WA7187	SWS	8.64	8.62	1265	73.0	373	75	Q-FYELD
890458	K74182/POTAM 70 s.07	WA7187	SWS	8.62	8.65	1300	74.0	372	76	P-Q-FYELD, Q-S-BCRGR
890459	K74182/POTAM 70 s.09	WA7187	SWS	8.54	8.55	1305	74.0	381	75	P-FYELD, Q-S-BCRGR, Q-COD1
890460	K74182/POTAM 70 s.12	WA7187	SWS	8.84	8.84	1325	75.0	386	79	P-FYELD
890461	K74182/POTAM 70 s.15	WA7187	SWS	8.51	8.47	1260	72.0	362	75	Q-FYELD, Q-COD1, Q-SCSOR
890462	K74182/POTAM 70 s.16	WA7187	SWS	8.60	8.59	1265	71.0	355	75	Q-SCSOR
890463	K74182/POTAM 70 s.17	WA7187	SWS	8.60	8.60	1260	71.0	364	75	P-MTIME (too long), Q-SCSOR
890464	K74182/POTAM 70 s.18	WA7187	SWS	8.62	8.59	1265	70.0	371	75	Q-SCSOR
890465	K74182/POTAM 70 s.20	WA7187	SWS	8.80	8.78	1355	78.0	369	75	
890466	K74182/POTAM 70 s.21	WA7187	SWS	8.71	8.61	1305	75.0	341	73	
890467	K74182/POTAM 70 s.22	WA7187	SWS	8.60	8.58	1310	73.0	365	75	
890468	K74182/POTAM 70 s.23	WA7187	SWS	8.44	8.44	1305	73.0	364	75	P-COD1
890469	K74182/POTAM 70 s.24	WA7187	SWS	8.65	8.66	1275	71.0	366	75	Q-SCSOR
890470	K74182/POTAM 70 s.28	WA7187	SWS	8.57	8.54	1320	77.0	359	73	Q-COD1
890471	K74182/POTAM 70 s.33	WA7187	SWS	8.40	8.41	1285	73.0	341	75	P-MTIME (too long), P-COD1
890472	K74182/POTAM 70 s.38	WA7187	SWS	8.43	8.45	1250	71.0	349	75	Q-FYELD, P-Q-COD1, Q-SCSOR
890473	K74182/POTAM 70 s.39	WA7187	SWS	8.40	8.41	1255	67.0	359	75	P-COD1, P-SCSOR
890474	K74182/POTAM 70 s.40	WA7187	SWS	8.50	8.53	1210	64.0	359	73	Q-COD1, P-SCSOR
890475	K74182/POTAM 70 s.41	WA7187	SWS	8.50	8.46	1315	78.0	355	74	P-MSCOR, P-Q-COD1

USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

DUAL PURPOSE

C.F. KONZAK

LIND, WA

NURSCO 17

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890476	K74182/POTAM 70 s.47	WA7187	SWS	58.3	70.6	0.40	78.0	10.4	60.6	8M
890477	K74182/POTAM 70 s.51	WA7187	SWS	60.7	70.0	0.37	80.4	10.8	62.0	4M
890478	K74182/POTAM 70 s.52	WA7187	SWS	61.3	69.1	0.38	77.7	11.1	62.2	5H
890479	K74182/POTAM 70 s.54	WA7187	SWS	62.2	68.8	0.36	78.8	11.1	62.1	5H
890480	K74182/POTAM 70 s.55	WA7187	SWS	61.0	69.3	0.35	79.7	10.8	61.9	5H
890481	K74182/POTAM 70 s.58	WA7187	SWS	60.5	68.7	0.38	78.1	11.3	60.8	4H
890482	K74182/POTAM 70 s.60	WA7187	SWS	61.5	67.7	0.35	78.6	10.8	60.9	4H
890483	PENEWAVA	PI495916	SWS	58.9	66.4	0.46	70.7	10.4	59.0	2M
890484	K74332/POTAM 70 s.10	WA7188	SWS	60.1	70.9	0.42	79.7	9.8	58.9	3M
890485	K74332/POTAM 70 s.19	WA7188	SWS	58.9	69.6	0.40	78.5	10.2	58.6	4M
890486	K74332/POTAM 70 s.22	WA7188	SWS	59.1	68.2	0.39	77.9	9.9	58.6	4M
890487	K74332/POTAM 70 s.28	WA7188	SWS	60.0	70.7	0.40	80.6	10.0	59.1	4M
890488	K74332/POTAM 70 s.29	WA7188	SWS	59.6	68.0	0.41	76.5	10.1	58.5	4M
890489	K74332/POTAM 70 s.31	WA7188	SWS	59.2	70.1	0.40	78.6	10.0	58.9	4M
890490	K74332/POTAM 70 s.36	WA7188	SWS	59.7	69.3	0.40	78.6	10.0	59.0	4M
890491	K74332/POTAM 70 s.42	WA7188	SWS	59.3	69.2	0.40	78.0	10.1	57.6	3M
890492	K74332/POTAM 70 s.50	WA7188	SWS	59.3	68.9	0.42	75.9	9.9	58.1	4M
890493	K74332/POTAM 70 s.56	WA7188	SWS	59.1	70.9	0.39	82.0	9.6	58.7	4M

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LIND, WA

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LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
890476	K74182/POTAM 70 s.47	WA7187	SWS	59.2	59.8	6.4	1020	1056	2
890477	K74182/POTAM 70 s.51	WA7187	SWS	61.0	61.2	5.5	1025	1037	2
890478	K74182/POTAM 70 s.52	WA7187	SWS	61.5	61.4	6.1	1030	1024	2
890479	K74182/POTAM 70 s.54	WA7187	SWS	61.4	61.3	5.8	1055	1049	2
890480	K74182/POTAM 70 s.55	WA7187	SWS	60.9	61.1	6.3	1050	1062	2
890481	K74182/POTAM 70 s.58	WA7187	SWS	60.3	60.0	5.6	1000	982	2
890482	K74182/POTAM 70 s.60	WA7187	SWS	59.9	60.1	5.4	1020	1032	2
890483	PENEWAWA	PI495916	SWS	57.6	58.2	2.1	890	926	6
890484	K74332/POTAM 70 s.10	WA7188	SWS	56.9	58.1	3.2	910	982	5
890485	K74332/POTAM 70 s.19	WA7188	SWS	57.0	57.8	3.5	965	1013	3
890486	K74332/POTAM 70 s.22	WA7188	SWS	56.7	57.8	3.4	955	1021	2
890487	K74332/POTAM 70 s.28	WA7188	SWS	57.3	58.3	3.6	910	970	3
890488	K74332/POTAM 70 s.29	WA7188	SWS	56.8	57.7	3.2	900	954	4
890489	K74332/POTAM 70 s.31	WA7188	SWS	57.1	58.1	3.3	990	1050	4
890490	K74332/POTAM 70 s.36	WA7188	SWS	57.2	58.2	3.1	925	985	4
890491	K74332/POTAM 70 s.42	WA7188	SWS	55.9	56.8	3.2	935	989	3
890492	K74332/POTAM 70 s.50	WA7188	SWS	56.2	57.3	3.7	935	1001	2
890493	K74332/POTAM 70 s.56	WA7188	SWS	56.5	57.9	3.1	885	969	4

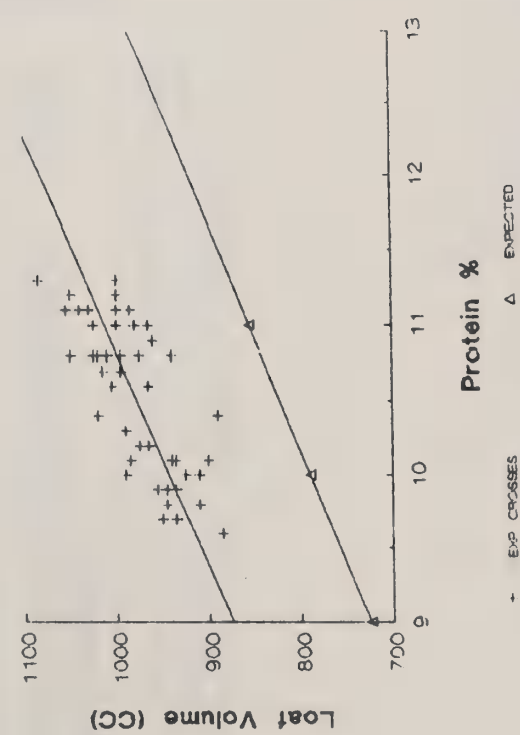
C.F. KONZAK

NURSCO 17

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	CAVOL	SCSOR	WTIN	NOSCOR	RMKS
890476	K74182/POTAM 70 s.47	WA7187	SWS	8.75	8.68	1310	76.0	369	74	
890477	K74182/POTAM 70 s.51	WA7187	SWS	8.77	8.75	1300	75.0	360	73	
890478	K74182/POTAM 70 s.52	WA7187	SWS	8.44	8.45	1290	74.0	358	75	P-COD1
890479	K74182/POTAM 70 s.54	WA7187	SWS	8.37	8.39	1220	69.0	371	75	P-COD1, P-SCSOR
890480	K74182/POTAM 70 s.55	WA7187	SWS	8.44	8.42	1320	76.0	356	73	P-COD1
890481	K74182/POTAM 70 s.58	WA7187	SWS	8.55	8.58	1285	76.0	331	72	
890482	K74182/POTAM 70 s.60	WA7187	SWS	8.52	8.50	1310	75.0	330	71	Q-FYELD, Q-COD1, Q-NOSCOR
890483	PENEWAVA	P1495916	SWS	8.87	8.81	1285	73.0	318	72	
890484	K74332/POTAM 70 s.10	WA7188	SWS	8.59	8.46	1210	66.0	339	72	Q-BCRGR, Q-COD1, P-SCSOR
890485	K74332/POTAM 70 s.19	WA7188	SWS	8.69	8.60	1285	74.0	326	73	
890486	K74332/POTAM 70 s.22	WA7188	SWS	8.45	8.33	1300	77.0	358	73	Q-FYELD, P-COD1
890487	K74332/POTAM 70 s.28	WA7188	SWS	8.61	8.50	1265	71.0	350	73	Q-COD1, Q-SCSOR
890488	K74332/POTAM 70 s.29	WA7188	SWS	8.60	8.50	1250	70.0	350	72	Q-FYELD, Q-S-BCRGR, Q-COD1, P-SCSOR
890489	K74332/POTAM 70 s.31	WA7188	SWS	8.51	8.40	1250	70.0	363	74	Q-S-BCRGR, P-COD1, P-SCSOR
890490	K74332/POTAM 70 s.36	WA7188	SWS	8.56	8.45	1310	76.0	352	74	Q-S-BCRGR, P-COD1
890491	K74332/POTAM 70 s.42	WA7188	SWS	8.60	8.50	1295	74.0	361	75	Q-COD1
890492	K74332/POTAM 70 s.50	WA7188	SWS	8.49	8.37	1265	70.0	345	72	Q-MSCOR, P-COD1, Q-SCSOR
890493	K74332/POTAM 70 s.56	WA7188	SWS	8.56	8.41	1275	74.0	354	73	Q-S-BCRGR, P-COD1

COMMENTS: This nursery averaged 11% flour protein. In general, selections in this nursery did not have a wide range in milling properties or cookie spread. Bread loaf volumes were very good to excellent for their flour protein level. (See plot of loaf volume vs flour protein level.) There was little variability in bread crumb grain. The most variability was in sponge cake volumes and scores. The mixogram properties were generally quite strong. The mixogram types that show "H" type were perhaps a little low for "H" types, but too high to be placed in the medium category. Bread mix times were quite long. See "Remarks".

LOAF VOLUME VS PROTEIN



NURSCO 18

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890494 STEPHENS		C1017596	SWW	60.2	72.7	0.38	89.2	6.7	50.7	9.27
890495 HILL 81		C1017954	SWW	61.2	73.2	0.36	91.1	6.4	52.0	9.45
890496 DAWS		C1017419	SWW	61.8	72.6	0.37	89.7	6.5	51.8	9.02
890497 DUSTY		PI486429	SWW	61.2	73.5	0.37	90.8	6.0	52.0	9.46
890498 HYAK		WA7166	CLUB	61.0	73.1	0.35	91.6	6.0	52.9	9.42
890499 MADSEN			SWW	61.7	73.4	0.37	90.8	6.6	52.7	9.04
890500 MALCOLM		ORCW8113	SWW	62.4	72.1	0.36	89.8	6.2	52.4	9.35
890501 OVESON		OR7996	SWW	60.7	70.3	0.35	88.0	5.6	52.9	9.36
890502 TRES		C1017917	CLUB	61.2	72.8	0.36	90.6	5.6	50.3	9.09
890503 MUNDT MIX			6/CLUB	60.7	73.3	0.36	91.3	6.1	49.2	9.44
890504 7C/CMO//CAL/3/YMH		ORCW8314	SWW	62.3	72.1	0.35	90.4	6.0	53.1	9.37
890505 PAHA//SEL72-330/DAWS, (M76-429)PW77-41, 84		OR855	CLUB	62.0	71.2	0.37	87.9	6.0	52.4	9.54
890506 LEWJAIN		C1017909	SWW	61.8	70.0	0.37	86.4	5.9	52.9	9.54
890507 CREW		C1017951	CLUB	60.0	73.1	0.38	89.8	6.0	52.3	9.41
890508 CER/YMH/HYS		ORCW8626	SWW	62.0	72.9	0.41	87.6	5.9	52.4	9.21
890509 CASHUP			SWW	61.1	69.4	0.38	85.0	6.1	51.2	9.70
890510 BASIN			SWW	62.7	69.9	0.36	87.0	6.3	51.8	9.39
890511 BATUM		PI495013	HRW	60.6	73.0	0.38	89.6	5.3	53.1	8.92
890512 HATTON		C1017772	HRW	65.2	68.3	0.36	84.9	6.3	56.6	8.71
890513 WANSER		C1013844	HRW	63.2	69.3	0.36	85.9	6.7	55.4	8.95
890514 ANDREW		WA6820	HRW	62.5	70.0	0.33	88.3	7.3	54.6	8.90
890515 PROBSTORFER EXTREME/T0866		ORCR8313	HRW	64.2	68.9	0.37	85.0	6.8	56.6	8.51
890516 .		ORCR8602	HRW	62.1	69.6	0.39	84.7	6.6	56.4	8.52
890517 .		ORCR8424	SWW	62.1	72.2	0.41	86.7	5.6	54.8	8.65
890518 OVESON SEL.			SWW	60.3	71.0	0.38	87.1	5.5	51.8	9.27
890519 JCM/4/RBS/ANZA/3/KUZ/HYS//YMN/T0865		804/E16	CLUB	62.7	70.3	0.37	86.8	6.1	52.5	9.02
890520 PAHA//SEL.M72-330/DAWS(M76-429)		804/E19	CLUB	62.3	71.0	0.37	87.7	6.1	52.3	9.35
890521 OVESON SEL.			SWW	60.7	69.6	0.37	86.0	5.7	53.4	9.31

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 6% protein.

4/ Observed values corrected to 6% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

WINTER WHEAT 910

NURSCO 18

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	RMKS
890494 STEPHENS		CI017596	SWW	9.35	1L	
890495 HILL 81		CI017954	SWW	9.49	2L	
890496 DAWS		CI017419	SWW	9.08	1L	
890497 DUSTY		PI486429	SWW	9.46	1L	
890498 HYAK		WA7166	CLUB	9.42	2L	
890499 MADSEN			SWW	9.10	2L	
890500 MALCOLM		ORCW8113	SWW	9.37	1L	
890501 OVESON		OR7996	SWW	9.32	1L	
890502 TRES		CI017917	CLUB	9.06	1L	
890503 MUNDT MIX			CLUB	9.44	1L	
890504 7C/CMO//CAL/3/YMH		ORCW8314	SWW	9.37	1L	
890505 PAHA//SEL72-330/DAWS, (M76-429)PW77-41, 84		OR855	CLUB	9.54	1L	Q-FYELD
890506 LEWJAIN		CI017909	SWW	9.53	1L	
890507 CREW		CI017951	CLUB	9.41	1L	
890508 CER/YMH/HYS		ORCW8626	SWW	9.20	1L	Q-MSCOR
890509 CASHUP			SWW	9.71	1L	
890510 BASIN			SWW	9.42	1L	
890511 BATUM		PI495013	HRW	8.85	2L	
890512 HATTON		CI017772	HRW	8.74	3L	
890513 WANSEER		CI013844	HRW	9.01	4L	
890514 ANDREW		WA6820	HRW	9.00	4L	
890515 PROBSTORFER EXTREME/T0866		ORCR8313	HRW	8.58	7L	Q-FYELD, P-COD1
890516 .		ORCR8602	HRW	8.57	7L	Q-MSCOR, P-COD1
890517 .		ORCR8424	SWW	8.61	3L	Q-FASH, Q-MSCOR, P-COD1
890518 OVESON SEL.			SWW	9.22	8L	Q-FYELD
890519 JCM/4/RBS/ANZA/3/KUZ/HYS//YMN/T0865		804/E16	CLUB	9.03	2L	P-FYELD
890520 PAHA//SEL.M72-330/DAWS(M76-429)		804/E19	CLUB	9.36	1L	Q-FYELD
890521 OVESON SEL.			SWW	9.28	1L	P-FYELD

COMMENTS: This nursery averaged 6% flour protein. Cookie diameters were very satisfactory for all SWW and club selections. The HRW checks and selections were not bread baked due to extremely weak mixing properties. See "Footnotes" and "Remarks".

NURSCO 19

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890522 TRES		WA6698	CLUB	61.9	71.5	0.34	84.1	7.1	48.8	9.17
890523 HYAK		WA7166	CLUB	61.1	72.2	0.32	85.8	6.9	52.3	8.65
890524 STEPHENS		C1017596	SWW	61.0	71.5	0.35	83.4	7.1	51.6	8.86
890525 PAHA//SEL.M72-330/DAWS(M76-429)		6/87-1285	CLUB	60.6	72.3	0.33	86.4	7.0	49.8	9.39
890526 EG/178383//2*YMH/3/YMH,DW		6/87-847	CLUB	61.0	72.9	0.37	85.4	7.0	49.2	9.11
890527 1-372/ROMANIAN,FG-10//ZANBA		87-636	CLUB	63.1	71.1	0.35	83.5	6.8	51.5	8.89
890528 PAHA//SEL.M72-330/DAWS(M76-429)		5/87-895	CLUB	60.5	72.3	0.35	86.3	6.2	50.9	9.30
890529 DAWS*2/SEL.M72-330,PW77-43		87-1170	CLUB	62.9	68.6	0.35	78.5	6.7	52.1	9.02
890530 DAWS*2/M72-330(PW77-43)		87-1033	CLUB	62.0	69.1	0.35	79.7	6.8	52.2	9.07
890531 DAWS/FANO		87-1039	CLUB	62.4	70.3	0.34	81.3	6.6	52.5	9.05
890532 YMH/TOB//BEZ/3/SPM//63-189-66-7-BEZ		87-1260	CLUB	63.6	69.7	0.30	82.7	6.7	52.9	9.17
890533 SPM/JCM		86-1077	CLUB	61.9	71.1	0.34	82.4	6.1	52.7	9.20
890534 PAHA//SEL.72-330/DAWS(M76-429)PW77-41		87-684	CLUB	62.8	68.6	0.37	78.2	6.8	51.9	9.25
890535 MNS/C114482		87-991	CLUB	60.9	71.1	0.34	82.1	7.0	51.6	9.21
890536 PAHA//SEL.72-330/DAWS(M76-429)PW77-41		86-315	CLUB	62.8	69.7	0.36	79.3	7.4	50.6	9.10
890537 JCM/4/NBS/AMZA/3/KUZ/HYS//YMH/TOB65		86-1129	CLUB	63.7	69.3	0.37	78.0	6.4	51.7	9.15
890538 EG/17838,M85-2124/YMH*2/3/1527/DNC-11		87-1028	CLUB	60.5	68.0	0.40	74.7	6.2	52.6	9.08
890539 DAWS*2/M72-330(PW77-43)		87-1034	CLUB	61.9	69.2	0.36	78.8	7.0	52.0	9.34

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 7% protein.

4/ Observed values corrected to 7% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 19

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	CAVOL	SCSOR	RMKS
				4/				
890522	TRES	WA6698	CLUB	9.18	1L	1315	76.0	
890523	HYAK	WA7166	CLUB	8.64	5L	1275	72.0	
890524	STEPHENS	C1017596	SWW	8.87	1L	1265	72.0	
890525	PAHA//SEL.M72-330/DAWS(M76-429)	87-1285	CLUB	9.39	1L	1265	71.0	
890526	EG/178383//2*YMH/3/YMH,DW	87-847	CLUB	9.11	2L	1345	76.0	
890527	1-372/ROMANIAN, FG-10//ZANBA	87-636	CLUB	8.87	1L	1315	75.0	
890528	PAHA//SEL.M72-330/DAWS(M76-429)	87-895	CLUB	9.24	1L	1385	80.0	
890529	DAWS*2//SEL.M72-330,PW77-43	87-1170	CLUB	9.00	2L	1335	76.0	Q-FYELD,P-MSCOR
890530	DAWS*2/M72-330(PW77-43)	87-1033	CLUB	9.06	2L	1295	72.0	Q-FYELD,P-MSCOR
890531	DAWS/FANO	87-1039	CLUB	9.02	1L	1350	80.0	Q-FYELD,Q-MSCOR
890532	YMH/T08//BEZ/3/SPM//63-189-66-7-BEZ	87-1260	CLUB	9.15	1L	1350	80.0	Q-FYELD
890533	SPM/JCM	86-1077	CLUB	9.14	1L	1355	81.0	
890534	PAHA//SEL.72-330/DAWS(M76-429)PW77-41	87-684	CLUB	9.24	2L	1280	75.0	Q-FYELD,P-MSCOR
890535	MNS/C114482	87-991	CLUB	9.21	1L	1270	73.0	
890536	PAHA//SEL.72-330/DAWS(M76-429)PW77-41	86-315	CLUB	9.13	2L	1365	79.0	Q-FYELD,P-MSCOR
890537	JCM/4/NBS/AMZA/3/KUZ/HYS//YMH/T0865	86-1129	CLUB	9.11	1L	1330	79.0	Q-FYELD,P-MSCOR
890538	EG/17838,M85-2124/YMH*2/3/1527/DNC-11	87-1028	CLUB	9.02	1L	1370	80.0	P-FYELD,P-MSCOR
890539	DAWS*2/M72-330(PW77-43)	87-1034	CLUB	9.34	1L	1310	78.0	Q-FYELD,P-MSCOR

COMMENTS: This nursery included some cultivars which produced excellent cookies and cakes. However, the milling potential of these cultivars, especially for club wheats, was not good. Some cultivars were flagged as being good in both respects. The milling report shows good bran clean-up, but heavy shorts. For such a low flour yield, a thick bran coat may be the culprit. This may be due to the year's environment. These samples could be re-examined to be sure whether the poor mill yield is due to the year's influence or not. The pastry quality on these cultivars is too impressive to drop without confirmation of poor mill yield.

USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

ADVANCED PRELIMINARY CLUB (912)

P.K. ZWER

PENDLETON, OR

NURSCO 20

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890540 .		87-1081	CLUB	61.6	69.4	0.34	87.5	8.2	49.8	9.15
890541 .		87-1082	CLUB	61.2	68.1	0.35	85.2	8.1	49.4	9.23
890542 .		87-883	CLUB	60.0	72.6	0.35	90.9	6.5	48.0	9.46
890543 .		87-996	CLUB	62.7	72.6	0.34	91.6	7.3	49.1	9.40
890544 .		87-1032	CLUB	62.1	71.6	0.36	89.1	7.5	48.9	9.40
890545 .		87-1066	CLUB	62.3	72.0	0.36	89.6	7.7	50.6	9.51
890546 .		87-985	CLUB	61.6	72.1	0.37	89.1	7.6	47.7	9.23
890547 .		87-988	CLUB	62.5	72.1	0.34	91.0	7.2	51.6	9.60
890548 .		87-1072	CLUB	63.6	73.2	0.32	93.7	7.1	51.5	9.45
890549 .		87-1091	CLUB	62.8	72.5	0.33	92.1	7.6	49.9	9.39
890550 .		87-915	CLUB	61.4	71.6	0.36	89.1	6.7	49.7	9.37
890551 .		87-989	CLUB	61.9	72.2	0.34	91.1	8.1	49.0	9.44
890552 .		87-1040	CLUB	62.1	72.9	0.34	92.1	7.6	49.9	9.10
890553 .		87-1043	CLUB	62.3	72.7	0.37	90.0	7.8	49.6	9.55
890554 .		87-1084	CLUB	63.0	72.9	0.32	93.2	6.7	51.7	9.23
890555 .		87-884	CLUB	60.5	73.6	0.34	92.9	6.7	47.4	9.74
890556 .		87-987	CLUB	61.8	71.3	0.34	90.0	8.1	48.9	9.49
890557 .		87-955	CLUB	63.4	71.8	0.36	89.4	7.4	48.6	9.39
890558 .		85HR5699	CLUB	61.1	73.2	0.32	93.7	7.1	50.4	9.23
890559 .		85HR5647	CLUB	61.1	71.2	0.34	89.8	7.1	50.3	9.44
890560 .		85HR6962	CLUB	62.1	72.2	0.34	91.1	8.3	49.8	9.27
890561 .		85HR5508	CLUB	63.4	72.0	0.28	94.7	8.1	47.8	9.70
890562 STEPHENS		C1017596	SWW	61.1	72.5	0.34	91.6	7.3	49.7	9.42
890563 TRES		WA6698	CLUB	61.9	73.5	0.35	92.1	6.6	49.7	9.24
890564 OR855		OR855	CLUB	62.7	71.5	0.33	90.9	7.1	51.0	9.67

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 7% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 7% protein.

NURSCO 20

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	CAVOL	SCSOR	RMKS
890540 .		87-1081	CLUB	9.24	2L	1265	70.0	P-FYELD, Q-CAVOL, P-SCSOR
890541 .		87-1082	CLUB	9.30	1L	1295	74.0	P-FYELD, Q-SCSOR
890542 .		87-883	CLUB	9.43	1L	1330	79.0	
890543 .		87-996	CLUB	9.42	2L	1265	74.0	Q-CAVOL, Q-SCSOR
890544 .		87-1032	CLUB	9.44	1L	1290	74.0	Q-FYELD, Q-SCSOR
890545 .		87-1066	CLUB	9.56	1L	1330	78.0	
890546 .		87-985	CLUB	9.27	1L	1300	77.0	
890547 .		87-988	CLUB	9.61	1L	1300	76.0	
890548 .		87-1072	CLUB	9.46	2L	1290	78.0	
890549 .		87-1091	CLUB	9.43	2L	1225	72.0	P-CAVOL, P-SCSOR
890550 .		87-915	CLUB	9.35	1L	1365	81.0	Q-FYELD
890551 .		87-989	CLUB	9.52	1L	1385	83.0	
890552 .		87-1040	CLUB	9.14	2L	1290	76.0	
890553 .		87-1043	CLUB	9.61	2L	1345	78.0	
890554 .		87-1084	CLUB	9.20	2L	1310	77.0	
890555 .		87-884	CLUB	9.72	1L	1370	79.0	
890556 .		87-987	CLUB	9.57	1L	1400	81.0	Q-FYELD
890557 .		87-955	CLUB	9.42	2L	1295	76.0	Q-FYELD
890558 .		85HR5699	CLUB	9.23	1L	1330	76.0	
890559 .		85HR5647	CLUB	9.44	1L	1365	79.0	Q-FYELD
890560 .		85HR6962	CLUB	9.37	2L	1295	73.0	P-Q-SCSOR
890561 .		85HR5508	CLUB	9.78	2L	1290	73.0	P-W-SCSOR
890562 STEPHENS		C1017596	SW	9.46	2L	1305	76.0	
890563 TRES		WA6698	CLUB	9.21	1L	1355	82.0	
890564 OR855		OR855	CLUB	9.68	2L	1280	76.0	Q-FYELD

COMMENTS: This nursery averaged 7% flour protein. A few selections had poor to questionable flour yield and/or sponge cake scores. Cookie diameters of this nursery were very good to excellent. See the "Remarks" column for the major deficiencies.

NURSCO 21

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH		MSCOR	FPROT		MABSC	MTYPE
						1/	3/		1/	3/		
890565	TWIN	C1014588	SWS	59.0	65.6	0.41		78.3	13.0		56.3	1H
890566	DIRKWIN	C1017745	SWS	59.5	66.4	0.46		76.2	12.8		53.5	1H
890567	OWENS	C1017904	SWS	60.1	62.3	0.40		74.8	13.8		57.0	2H
890568	EDWALL	WA6831	SWS	60.0	63.8	0.39		77.3	12.2		58.7	1H
890569	PENAWAWA	WA6920	SWS	60.6	62.9	0.45		72.4	12.5		58.4	1H
890570	WADUAL	WA7187	SWS	62.6	65.5	0.32		83.8	13.8		60.0	4M
890571	WAKANZ	WA7183	SWS	63.1	67.7	0.39		82.2	11.7		58.3	2M
890572	ORS8501	ORS8501	SWS	62.7	65.8	0.29		86.7	12.6		59.4	1H
890573	OR4870503	OR4870503	SWS	61.6	61.6	0.36		76.4	13.7		62.1	4M
890574	OR4870570	OR4870570	SWS	61.9	61.2	0.38		74.6	13.8		64.1	4M
890575	OR4870316	OR4870316	SWS	61.7	59.5	0.44		68.7	13.3		63.1	1H
890576	HORK/YMH/KA//BB	ORS91432	HWS	61.6	67.2	0.39		82.3	14.3		67.2	5H
890577	ORS8510	ORS8510	HWS	61.8	66.8	0.31		85.9	13.8		67.2	6M
890578	ORS8508	ORS8508	HWS	63.0	67.2	0.32		85.9	15.1		67.7	3H
890579	WESTBRED 906R	WESTBRED 9	HRS	62.0	66.6	0.32		85.3	14.7		68.5	5H
890580	YECORO ROJO	C1017414	HRS	63.0	68.5	0.30		88.3	14.4		67.0	5H
890581	MCKAY	C1017903	HRS	60.5	69.3	0.36		86.0	14.3		67.6	5H
890582	KODIAK	.	HRS	61.2	70.6	0.34		88.4	14.5		67.3	6H
890583	BRONZE CHIEF	.	HRS	60.9	71.4	0.38		87.2	14.7		69.8	5H
890584	KLASIC	.	HWS	64.1	70.5	0.35		87.9	14.1		67.1	6H
890585	OR4870355	OR4870355	HWS	61.7	65.8	0.39		80.8	15.4		71.3	4H
890586	OR4870456	OR4870456	HWS	63.3	68.6	0.36		85.3	13.6		67.9	3H
890587	OR4870475	OR4870456	HWS	61.9	68.6	0.36		85.3	12.9		66.1	3H
890588	OR4870400	OR4870400	HWS	63.0	67.8	0.39		82.8	15.3		69.6	4H
890589	WAVERLY	C1017911	SWS	61.4	65.9	0.33		83.7	12.8		57.5	2M
890590	WAMPUM	C1017691	HRS	59.4	67.2	0.36		83.9	14.4		66.0	3H

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 14% protein.

4/ Observed values corrected to 14% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 21

PENDLETON, OR

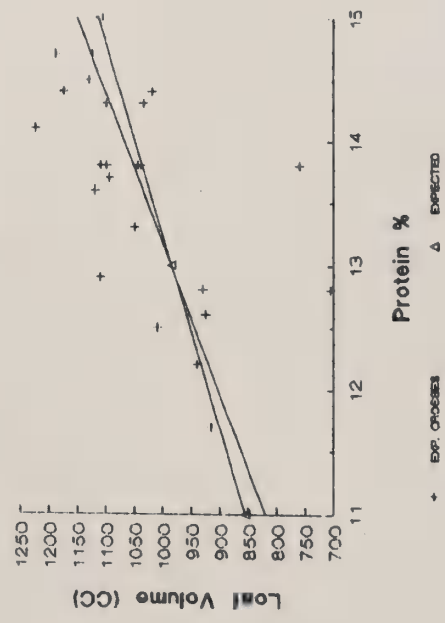
P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	BABS 1/ 3/	BABSC 3/ 4/	MTIME	LVOL	LVOLC 4/	BCRGR
890565	TWIN	CI014588	SWS	55.0	56.0	1.1	760	820	9
890566	DIRKWIN	CI017745	SWS	52.0	53.2	1.0	705	777	9
890567	OMENS	CI017904	SWS	58.5	58.7	2.3	1040	1052	2
890568	EDWALL	WA6831	SWS	58.1	59.9	1.6	940	1048	5
890569	PENAWAWA	WA6920	SWS	58.1	59.6	2.2	1010	1100	5
890570	WADUAL	WA7187	SWS	61.0	61.2	2.5	1110	1122	3
890571	WAKANZ	WA7183	SWS	54.7	57.0	1.9	915	1053	4
890572	ORS8501	ORS8501	SWS	57.7	59.1	1.4	925	1009	6
890573	OR4870503	OR4870503	SWS	63.0	63.3	3.3	1095	1113	3
890574	OR4870570	OR4870570	SWS	65.1	65.3	3.3	1100	1112	6
890575	OR4870316	OR4870316	SWS	61.1	61.8	1.5	1050	1092	5
890576	HORK/YMH/KA//BB ORS91432	ORS8413	HWS	69.2	68.9	3.5	1100	1081	2
890577	ORS8510	ORS8510	HWS	68.7	68.9	3.6	1045	1057	2
890578	ORS8508	ORS8508	HWS	70.5	69.4	2.3	1155	1087	2
890579	WESTBRED 906R	WESTBRED 9	HRS	70.4	69.7	3.8	1190	1147	3
890580	YECORO ROJO	CI017414	HRS	69.1	68.7	3.4	1020	995	2
890581	MCKAY	CI017903	HRS	69.6	69.3	5.9	1035	1016	3
890582	KODIAK	.	HRS	67.0	66.5	5.2	1130	1099	1
890583	BRONZE CHIEF	.	HRS	69.7	69.0	4.6	1125	1082	2
890584	KLASIC	.	HWS	66.4	66.3	4.5	1225	1219	2
890585	OR4870355	OR4870355	HWS	71.9	70.5	3.2	1220	1133	2
890586	OR4870456	OR4870456	HWS	66.7	67.1	3.7	1120	1145	1
890587	OR4870475	OR4870456	HWS	64.2	65.3	3.5	1110	1178	2
890588	OR4870400	OR4870400	HWS	70.1	68.8	3.4	1105	1024	2
890589	WAVERLY	CI017911	SWS	55.5	56.7	1.8	930	1002	6
890590	WAMPUM	CI017691	HRS	65.6	65.2	2.9	1175	1150	2

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	RMKS
890565	TWIN	CI014588	SWS	9.17	9.06	
890566	DIRKVIN	CI017745	SWS	9.00	8.87	
890567	OWENS	CI017904	SWS	8.76	8.74	
890568	EDWALL	WA6831	SWS	8.86	8.66	
890569	PENAWAVA	WA6920	SWS	8.92	8.76	
890570	WADUAL	WA7187	SWS	8.74	8.72	
890571	WAKANZ	WA7183	SWS	9.11	8.86	
890572	ORS8501	ORS8501	SWS	9.34	9.18	P-MTIME, P-Q-LVOL, Q-BCRGR
890573	OR4870503	OR4870503	SWS	8.85	8.82	P-FYELD, P-MSCOR
890574	OR4870570	OR4870570	SWS	8.77	8.75	P-FYELD, Q-BCRGR
890575	OR4870316	OR4870316	SWS	8.70	8.62	VP-FYELD, P-MTIME, Q-BCRGR, Q-COD1
890576	HORK/YMH/KA//88	ORS8413	HWS			Q-FYELD
890577	ORS8510	ORS8510	HWS			Q-FYELD, Q-MSCOR
890578	ORS8508	ORS8508	HWS			Q-FYELD, Q-MSCOR
890579	WESTBRED 906R	WESTBRED 9	HRS			Q-FYELD, Q-MSCOR
890580	YECORO ROJO	CI017414	HRS			
890581	MCKAY	CI017903	HRS			
890582	KODIAK	.	HRS			
890583	BRONZE CHIEF	.	HRS			
890584	KLASIC	.	HWS			
890585	OR4870355	OR4870355	HWS			P-FYELD
890586	OR4870456	OR4870456	HWS			Q-FYELD
890587	OR4870475	OR4870456	HWS			Q-FYELD
890588	OR4870400	OR4870400	HWS			P-Q-FYELD, Q-LVOL
890589	WAVERLY	CI017911	SWS	9.24	9.11	
890590	WAMPUM	CI017691	HRS	8.65	8.68	

LOAF VOLUME VS PROTEIN

COMMENTS: This nursery averaged 14% flour protein content. The milling quality of this nursery was not satisfactory for most selections and for most of the SWS checks. The hard wheats in general had more satisfactory milling quality. In general, evaluations and comparisons were made more difficult and perhaps are not reliable. Loaf volume of most of the checks and selections were equal to or better than expected for their flour protein level. See "Remarks".



NURSCO 22

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890591 DIRKWIN		C1017745	SWS	60.0	67.8	0.42	80.5	11.6	53.7	9.26
890592 TWIN		C1014588	SWS	59.2	67.4	0.47	77.0	12.6	54.6	8.96
890593 OWENS		C1017904	SWS	61.3	63.3	0.38	77.3	12.5	56.8	9.12
890594 DAVIS 1		840/593	CLUB	64.5	65.6	0.39	79.6	12.7	57.9	9.14
890595 DAVIS 2		840/569	CLUB	63.7	66.6	0.38	81.5	12.7	56.9	8.99
890596 DAVIS 3		5/ 840/3425	CLUB	62.7	69.3	0.35	86.8	12.7	58.1	9.05
890597 DAVIS 4		840/621	CLUB	65.7	67.0	0.41	80.1	10.8	57.2	9.02
890598 DAVIS 5		840/625	CLUB	61.2	67.5	0.42	80.1	11.1	58.8	9.07
890599 DAVIS 6		840/645	CLUB	62.7	66.7	0.35	83.5	13.4	59.2	8.66
890600 DAVIS 7		840/697	CLUB	61.1	64.2	0.35	80.3	13.2	59.6	8.99
890601 DAVIS 8		840/7685	CLUB	64.1	67.6	0.39	82.1	11.9	58.5	8.80
890602 TINCURRIN		840/7749	CLUB	62.9	65.6	0.34	82.7	12.6	58.8	9.09

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 22

PENDLETON, OR

P. K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	RMKS
890591 DIRKVIN		C1017745	SWS	9.22	1M	
890592 TWIN		C1014588	SWS	9.03	1H	
890593 OWENS		C1017904	SWS	9.18	1H	
890594 DAVIS 1		840/593	CLUB	9.19	1H	Q-FYELD
890595 DAVIS 2		840/569	CLUB	9.04	1H	
890596 DAVIS 3		840/3425	CLUB	9.10	1H	
890597 DAVIS 4		840/621	CLUB	8.94	2M	
890598 DAVIS 5		840/625	CLUB	9.01	3M	
890599 DAVIS 6		840/645	CLUB	8.76	1H	Q-COD1
890600 DAVIS 7		840/697	CLUB	9.07	1H	P-FYELD
890601 DAVIS 8		840/7685	CLUB	8.79	1H	Q-COD1
890602 TINCURRIN		840/7749	CLUB	9.13	2M	Q-FYELD

COMMENTS: This nursery averaged 12% flour protein. Despite quite high flour protein, most selections gave very satisfactory cookie diameters. Flour yields and milling scores of most selections and the check varieties were not very satisfactory. Comparisons of selections and check varieties take this into account. Selection No. 840/3425 showed a good flour yield and milling score as well as cookie diameter.

NURSCO 23

MORO, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890603 STEPHENS		C1017596	SWW	60.7	67.2	0.37	82.9	9.0	54.3	2L
890604 HILL 81		ORC8007	SWW	61.3	69.6	0.38	85.3	10.5	55.3	2M
890605 DAWS		C107419	SWW	59.9	65.4	0.31	84.9	9.1	52.8	2M
890606 DUSTY		P1486429	SWW	61.4	65.4	0.36	81.2	9.2	54.4	3M
890607 HYAK		WA7166	CLUB	61.1	70.3	0.33	89.9	9.0	54.0	5M
890608 MADSEN		.	SWW	61.2	67.2	0.36	83.5	9.8	55.5	2M
890609 MALCOLM		ORCW8113	SWW	61.4	66.5	0.32	85.2	8.9	53.6	2M
890610 OVESON		OR7996	SWW	59.2	63.9	0.36	79.3	9.7	54.7	6M
890611 MUNDT-MIX		.	CLUB	59.6	69.1	0.35	86.5	8.3	52.2	2M
890612 7C/CNO//CAL/3/YMH		ORCW8314	SWW	62.1	67.3	0.30	87.4	8.6	53.2	2M
890613 PAHA//SEL.72-330/DAWS,(M76-429) PW77-41,		OR855	CLUB	62.8	68.4	0.38	83.7	8.4	53.0	2M
890614 LEVJAIN		C1017909	SWW	61.4	64.4	0.33	81.8	9.2	55.2	3M
890615 CREW		C1017951	CLUB	59.9	68.0	0.34	85.8	8.8	50.5	2M
890616 CER/YMH/HYS		6/ORCW8626	SWW	62.3	68.8	0.33	87.4	10.5	53.8	2M
890617 CASHUP		.	SWW	60.9	63.9	0.31	83.0	9.6	54.3	2M
890618 BASIN		.	SWW	61.1	68.5	0.30	88.9	9.3	53.8	2M
890619 BATUM		WA6816	HRW	60.9	69.6	0.35	86.9	9.9	60.5	3M
890620 HATTON		C1017772	HRW	65.0	70.9	0.33	89.2	10.3	61.5	6M
890621 WANSEER		C1013844	HRW	63.5	69.3	0.26	91.2	10.3	61.5	6M
890622 ANDREW		WA6820	HRW	61.4	70.4	0.34	88.2	10.0	58.5	7M
890623 PROBSTONFEN EXTREME/TOB 66		ORCR8313	HRW	62.6	69.5	0.34	87.3	9.4	59.6	8M
890624 .		ORCR8602	HRW	61.7	68.1	0.33	86.3	9.5	61.2	8M
890625 .		ORCR8424	HRW	59.9	68.9	0.37	84.0	9.9	61.5	6M
890626 OVESON SELECTION		.	SWW	59.5	66.8	0.38	81.8	9.0	53.0	8L
890627 JCM/4/NBS/ANZA/3/KUZ/HYS/YMN/TOB65		804/E16	CLUB	60.9	67.8	0.33	86.1	9.3	51.0	2M
890628 PAHA//SEL.M72-330/DAWS(M76-429)		6/804/E19	CLUB	62.7	70.4	0.34	88.8	9.1	53.3	2M
890629 OVESON SELN		.	SWW	59.3	64.0	0.37	78.8	8.5	53.9	8L

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 23

MORO, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	BABS	BABSC	MTIME	LVOL	LVOLC	BCRGR
				1/	3/			4/	
890603	STEPHENS	CI017596	SWW						
890604	HILL 81	OR68007	SWW						
890605	DAWS	CI07419	SWW						
890606	DUSTY	PI486429	SWW						
890607	HYAK	WA7166	CLUB						
890608	MADSEN	.	SWW						
890609	MALCOLM	ORCW8113	SWW						
890610	OVESON	OR7996	SWW						
890611	MUNDT-MIX	.	CLUB						
890612	7C/CNO//CAL/3/YMH	ORCW8314	SWW						
890613	PAHA//SEL.72-330/DAWS,(M76-429) PM77-41,	OR855	CLUB						
890614	LEWJAIN	CI017909	SWW						
890615	CREW	CI017951	CLUB						
890616	CER/YMH/HYS	ORCW8626	SWW						
890617	CASHUP	.	SWW						
890618	BASIN	.	SWW						
890619	BATUM	WA6816	HRW	60.6	59.7	2.1	950	894	5
890620	HATTON	CI017772	HRW	62.0	60.7	3.5	890	809	4
890621	WANSER	CI013844	HRW	62.0	60.7	3.4	955	874	3
890622	ANDREW	WA6820	HRW	60.7	59.7	3.7	800	738	8
890623	PROBSTONFEN EXTREME/TOB 66	ORCR8313	HRW	59.2	58.8	5.0	840	815	6
890624	.	ORCR8602	HRW	60.9	60.4	4.3	860	829	6
890625	.	ORCR8424	HRW	61.6	60.7	3.2	790	734	4
890626	OVESON SELECTION	.	SWW						
890627	JCM/4/NBS/ANZA/3/KUZ/HYS/YMN/TOB65	804/E16	CLUB						
890628	PAHA//SEL.M72-330/DAWS(M76-429)	804/E19	CLUB						
890629	OVESON SELN	.	SWW						

USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

WINTER WHEAT YIELD TRIAL (922)

P.K. ZWER

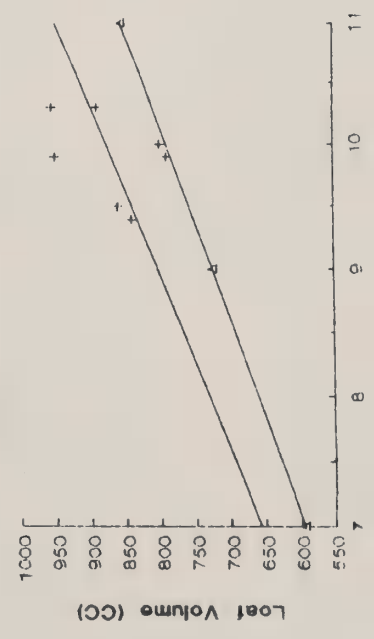
MORO, OR

NURSCO 23

LABNUM	VARIETY	IDNO	CLASS	COOI	COOIC 4/	RMKS
890603	STEPHENS	C1017596	SWW	9.20	9.20	
890604	HILL 81	OR68007	SWW	9.32	9.49	
890605	DAWS	C107419	SWW	8.87	8.89	
890606	DUSTY	PI486429	SWW	9.09	9.11	
890607	HYAK	WA7166	CLUB	9.16	9.16	
890608	MADSEN	.	SWW	9.19	9.28	
890609	MALCOLM	ORCW8113	SWW	8.96	8.95	
890610	OVESON	OR7996	SWW	9.33	9.40	
890611	MUNDT-MIX	.	CLUB	9.27	9.23	
890612	7C/CNO//CAL/3/YNH	ORCW8314	SWW	8.91	8.87	
890613	PAHA//SEL.72-330/DAWS,(M76-429) PW77-41,	OR855	CLUB	9.75	9.71	P-Q-FYELD
890614	LEWJAIN	C1017909	SWW	9.07	9.10	
890615	CREW	C1017951	CLUB	9.30	9.29	
890616	CER/YMH/HYS	ORCW8626	SWW	9.14	9.30	
890617	CASHUP	.	SWW	9.00	9.07	Q-FYELD
890618	BASIN	.	SWW	9.14	9.17	
890619	BATUM	WA6816	HRW			
890620	HATTON	C1017772	HRW			
890621	WANSER	C1013844	HRW			
890622	ANDREW	WA6820	HRW			
890623	PROBSTONFEN EXTREME/T08 66	ORCR8313	HRW			Q-BCRGR
890624	.	ORCR8602	HRW			Q-FYELD Q-BCRGR
890625	.	ORCR8424	HRW			P-Q-FYELD Q-BCRGR
890626	OVESON SELECTION	.	SWW	9.18	9.18	Q-FYELD
890627	JCM/4/NBS/ANZA/3/KUZ/HYS/YMN/T0865	804/E16	CLUB	9.04	9.06	Q-FYELD
890628	PAHA//SEL.M72-330/DAWS(M76-429)	804/E19	CLUB	9.46	9.47	
890629	OVESON SELN	.	SWW	9.24	9.18	P-Q-FYELD

LOAF VOLUME VS PROTEIN

COMMENTS: This nursery averaged 9% flour protein content. Milling quality was quite variable among the selections and the check varieties. Comparisons and evaluations were made between checks and the selections within each class. Due to this variability, comparisons may not be too reliable. Cookie spread of the SWW and club selections were very satisfactory. Loaf volumes of the HRW selections were equal to or better than that expected for their flour protein level. Crumb grain was questionable of most selections, however, crumb grains of the check varieties were also somewhat questionable. See "Footnotes" and "Remarks".



USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

CLUB WHEAT YIELD TRIAL (923)

P.K. ZWER

MORO, OR

NURSCO 24

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	COOI
890630	TRES	WA6698	CLUB	63.1	69.0	0.34	87.0	9.1	50.3	9.20
890631	HYAK	WA7166	CLUB	61.5	70.0	0.36	87.1	9.9	51.7	8.86
890632	STEPHENS	C1017596	SNW	61.0	68.0	0.36	84.9	10.1	51.0	9.39
890633	PAHA//SEL.M72-330/DAWS(M76-429)	5/87-1285	CLUB	59.2	71.1	0.37	87.9	9.1	49.0	9.37
890634	EG/178383//2*YMH/3/YMH,DW	5/87-847	CLUB	60.0	71.1	0.37	87.9	7.9	51.2	9.48
890635	I-372/NOMAMIAN,FG-70//ZONBA	6/87-636	CLUB	63.5	69.8	0.36	86.9	9.5	50.5	9.29
890636	PAHA//SEL.M72-330/DAWS(M76-429)	6/87-895	CLUB	61.1	71.2	0.39	86.8	9.3	50.6	9.35
890637	DAWS*2/SEL-M72-330,PW77-43	87-1170	CLUB	63.1	68.1	0.39	82.8	9.6	51.4	9.23
890638	DAWS*2/M72-330(PW77-43)	87-1033	CLUB	61.2	66.7	0.39	81.0	9.4	51.6	8.87
890639	DAWS/FANO	87-1039	CLUB	62.7	69.2	0.29	90.5	8.7	50.3	9.15
890640	YMH/T08//BEZ/3/SPN//63-189-66-7-BEZ	87-1260	CLUB	63.5	68.5	0.33	87.1	9.2	50.7	9.08
890641	SPN/JCM	6/86-1077	CLUB	61.7	70.5	0.34	89.0	8.6	50.8	9.40
890642	PAHA//SEL.72-330/DAWS(M76-429)PW77-41	87-684	CLUB	63.5	67.1	0.29	87.8	9.5	50.9	9.15
890643	MNS/C114482	87-991	CLUB	60.5	67.5	0.33	85.8	10.0	49.9	9.41
890644	PAHA//SEL.72-330/DAWS(M76-429)PW77-41	86-315	CLUB	62.8	68.4	0.29	89.5	8.9	49.1	9.25
890645	JCM/4/RBS/ANZA/3/KUZ/HYS//YMB/T0865	86-1129	CLUB	61.5	68.1	0.33	86.6	9.5	49.8	9.36
890646	EG/17838,M85-2124/YMH*2/3/1527/DNC-11	87-1028	CLUB	58.1	64.6	0.41	77.1	9.9	50.6	9.04
890647	DAWS*2/M72-330(PW77-43)	87-1034	CLUB	60.0	65.9	0.37	81.2	10.1	51.4	8.95

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 9% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 9% protein.

NURSCO 24

MORO, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	RMKS
890630	TRES	WA6698	CLUB	9.21	2M	
890631	HYAK	WA7166	CLUB	8.93	4M	
890632	STEPHENS	C1017596	SMW	9.47	2M	
890633	PAHA//SEL.M72-330/DAWS(M76-429)	87-1285	CLUB	9.38	1M	Q-TWT
890634	EG/178383//12*YMH/3/YMH,DW	87-847	CLUB	9.40	3L	
890635	1-372/NOMAMIAN,FG-70//ZONBA	87-636	CLUB	9.32	2M	
890636	PAHA//SEL.M72-330/DAWS(M76-429)	87-895	CLUB	9.37	2M	
890637	DAWS*2/SEL-M72-330,PW77-43	87-1170	CLUB	9.27	4M	Q-MSCOR
890638	DAWS*2/M72-330(PW77-43)	87-1033	CLUB	8.90	4M	Q-FYELD,Q-MSCOR,Q-COD1
890639	DAWS/FANO	87-1039	CLUB	9.13	3L	
890640	YMH/TOB//BEZ/3/SPN//63-189-66-7-BEZ	87-1260	CLUB	9.09	3M	
890641	SPN/JCH	86-1077	CLUB	9.37	2M	
890642	PAHA//SEL.72-330/DAWS(M76-429)PW77-41	87-684	CLUB	9.19	3M	Q-FYELD
890643	MNS/C114482	87-991	CLUB	9.48	1M	Q-FYELD,Q-MSCOR
890644	PAHA//SEL.72-330/DAWS(M76-429)PW77-41	86-315	CLUB	9.24	2M	
890645	JCH/4/RBS/ANZA/3/KUZ/HYS//YMB/TOB65	86-1129	CLUB	9.40	3M	
890646	EG/17838,M85-2124/YMH*2/3/1527/DNC-11	87-1028	CLUB	9.10	5M	Q-TWT,P-FYELD,P-MSCOR
890647	DAWS*2/M72-330(PW77-43)	87-1034	CLUB	9.03	3M	Q-FYELD,Q-MSCOR

COMMENTS: This nursery has several promising selections which are individually flagged. The flour yield for the nursery as a whole is less than would normally be expected. The cookie diameters were generally acceptable.

NURSCO 25

MORO, DR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890648	TWIN	CI014588	SWS	58.0	64.4	0.37	79.2	11.6	57.0	2M
890649	DIRKWIN	CI017745	SWS	57.1	64.6	0.39	78.2	11.7	56.5	2M
890650	OHENS	CI017904	SWS	58.5	65.3	0.36	81.1	12.4	58.5	4M
890651	EDWALL	WA6831	SWS	57.3	58.7	0.34	73.9	11.8	58.1	2M
890652	PENAWAHA	WA6920	SWS	59.9	66.2	0.36	82.2	11.4	58.6	4M
890653	WADUAL	WA7187	SWS	60.5	64.3	0.32	82.9	11.6	60.9	6M
890654	WAKANZ	WA7183	SWS	60.5	65.8	0.36	81.7	10.9	57.5	3M
890655	ORS8501	ORS8501	SRS	62.0	66.6	0.31	86.5	11.1	59.3	2M
890656	OR4870503	OR4870503	SWS	59.3	65.5	0.34	82.5	12.0	59.0	6M
890657	OR4870570	OR4870570	SWS	58.3	62.5	0.36	77.5	12.4	60.5	7M
890658	OR4870316	OR4870316	SWS	60.6	59.2	0.37	72.7	11.5	61.6	2M
890659	HONK/YMH/KA//BB. ORS791432	ORS8413	HWS	60.4	67.0	0.36	83.6	13.0	67.2	6H
890660	ORS8510	ORS8510	HRS	62.5	68.4	0.33	86.6	12.7	64.7	5H
890661	ORS8508	ORS8508	HRS	62.4	67.3	0.34	85.0	13.1	66.6	5H
890662	WESTBRED 906R	WESTBRED 9	HRS	61.6	67.4	0.34	85.0	13.7	66.1	6H
890663	YECORA ROJO	CI017414	HRS	62.4	68.7	0.33	86.9	13.2	66.1	6H
890664	MCKAY	CI017903	HRS	60.0	68.1	0.33	86.3	12.7	64.1	7H
890665	KODIAK	.	HRS	57.2	68.9	0.37	85.0	12.8	64.2	7H
890666	BRONZE CHIEF	.	HRS	59.1	69.9	0.32	88.7	14.3	67.6	8H
890667	KLASIC	.	HWS	62.3	67.6	0.33	85.8	12.7	64.6	6H
890668	OR4870355	OR4870355	HRS	61.1	65.3	0.32	83.9	14.3	69.4	6H
890669	OR4870456	OR4870456	HRS	63.3	69.1	0.35	86.3	12.6	66.7	5H
890670	OR4870475	OR4870475	HRS	60.0	66.6	0.33	84.7	13.2	64.7	5H
890671	OR4870400	OR4870400	HRS	58.8	65.3	0.35	82.3	14.5	69.9	7H
890672	WAVERLY	CI017911	SWS	60.0	64.6	0.33	82.0	11.7	57.2	3M
890673	WAMPUM	CI017911	HRS	59.0	67.6	0.35	84.7	13.2	66.6	5H

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 13% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 13% protein.

NURSCO 25

MORO, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
890648 TWIN		C1014588	SWS						
890649 DIRKWIN		C1017745	SWS						
890650 OWENS		C1017904	SWS						
890651 EDWALL		WA6831	SWS						
890652 PENAUAWA		WA6920	SWS						
890653 WADUAL		WA7187	SWS	58.7	60.1	4.7	940	1024	4
890654 WAKANZ		WA7183	SWS						
890655 ORS8501		ORS8501	SRS						
890656 OR4870503		OR4870503	SWS						
890657 OR4870570		OR4870570	SWS						
890658 OR4870316		OR4870316	SWS						
890659 HONK/YMH/KA//BB. ORS791432		ORS8413	HWS	66.4	66.4	5.2	895	975	4
890660 ORS8510		ORS8510	HRS	63.6	63.9	4.0	925	944	4
890661 ORS8508		ORS8508	HRS	65.9	65.8	3.5	925	919	6
890662 WESTBRED 906R		WESTBRED 9	HRS	67.0	66.3	4.3	1010	967	4
890663 YECORA ROJO		C1017414	HRS	65.5	65.3	4.7	990	978	3
890664 MCKAY		C1017903	HRS	63.0	63.3	7.6	950	969	4
890665 KODIAK		.	HRS	63.2	63.4	7.2	975	987	3
890666 BRONZE CHIEF		.	HRS	68.1	66.8	8.8	990	909	4
890667 KLASIC		.	HWS	63.5	63.8	5.3	1020	1039	5
890668 OR4870355		OR4870355	HRS	69.9	68.6	4.1	965	884	4
890669 OR4870456		OR4870456	HRS	65.5	65.9	4.5	920	945	2
890670 OR4870475		OR4870475	HRS	64.1	63.9	4.4	985	973	4
890671 OR4870400		OR4870400	HRS	70.6	69.1	5.4	925	832	6
890672 WAVERLY		C1017911	SWS						
890673 WAMPUM		C1017911	HRS	66.0	65.8	3.6	970	958	4

USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

SPRING WHEAT YIELD TRIAL (951)

MURSCO 25

MORO, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	RMKS
890648	TWIN	C1014588	SWS	9.30	9.15	
890649	DIRKWIN	C1017745	SWS	9.26	9.12	
890650	OWENS	C1017904	SWS	8.69	8.62	
890651	EDWALL	WA6831	SWS	8.94	8.81	
890652	PENAWANA	WA6920	SWS	8.89	8.71	
890653	WADUAL	WA7187	SWS	8.77	8.62	
890654	WAKANZ	WA7183	SWS	9.16	8.93	
890655	ORS8501	ORS8501	SWS	9.18	8.97	
890656	OR4870503	OR4870503	SWS	8.80	8.69	
890657	OR4870570	OR4870570	SWS	8.91	8.85	P-FYELD
890658	OR4870316	OR4870316	SWS	8.59	8.42	P-FYELD, P-Q-CODI
890659	HONK/YMH/KA//BB. ORS791432	ORS8413	HWS			Q-FYELD, P-LVOL, Q-S-BCRGR
890660	ORS8510	ORS8510	HRS			Q-LVOL, Q-S-BCRGR
890661	ORS8508	ORS8508	HRS			Q-FYELD, P-LVOL, Q-BCRGR
890662	WESTBRED 906R	WESTBRED 9	HRS			
890663	YECORA ROJO	C1017414	HRS			
890664	MCKAY	C1017903	HRS			
890665	KODIAK	.	HRS			
890666	BRONZE CHIEF	.	HRS			
890667	KLASIC	.	HWS			
890668	OR4870355	OR4870355	HRS			P-FYELD, P-LVOL, Q-S-BCRGR
890669	OR4870456	OR4870456	HRS			Q-LVOL
890670	OR4870475	OR4870475	HRS			P-Q-FYELD, Q-S-BCRGR
890671	OR4870400	OR4870400	HRS			P-FYELD, VP-LVOL, Q-BCRGR
890672	WAVERLY	C1017911	SWS	8.91	8.77	
890673	WAMPUM	C1017911	HRS			

LOAF VOLUME VS PROTEIN



COMMENTS: This nursery averaged 13% flour protein. The milling properties (particularly flour yield of the soft and hard selection as well as the check varieties were abnormally low. Loaf volumes were also below that expected for their flour protein levels for nearly all selections and checks. Comparisons of the SWS selections were made to SWS checks. Comparison of HRS and HWS selections were made to the HRS and HWS checks. Comparisons under these situations may not be too reliable. See "Remarks" column.

NURSCO 26

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	MABSC	COOI
890674 .		85HR5540 C	CLUB	63.4	72.1	0.34	91.5	7.7	52.4	9.62
890675 .		6/85HR5597 C	CLUB	64.2	72.1	0.29	94.2	7.5	50.5	9.52
890676 .		85HR5568 C	CLUB	62.5	73.0	0.30	94.6	7.2	52.6	9.27
890677 .		85HR5441 C	CLUB	62.0	73.4	0.33	93.3	6.7	52.1	9.51
890678 .		85HR6518 C	CLUB	65.1	74.9	0.29	97.7	7.9	51.7	9.05
890679 .		85HR5564 C	CLUB	64.1	72.1	0.29	94.1	7.9	52.2	9.34
890680 .		85HR5510 C	CLUB	63.3	72.4	0.29	95.1	6.9	52.4	9.83
890681 .		6/85HR5127 C	CLUB	63.0	72.0	0.29	94.0	7.1	52.7	9.73
890682 .		6/85HR6660 C	CLUB	62.8	72.0	0.29	94.0	6.8	51.8	9.55
890683 .		5/85HR5530 C	CLUB	62.7	73.1	0.29	95.4	8.1	51.0	9.96
890684 .		85HR5287 C	CLUB	61.8	72.8	0.33	92.5	6.9	52.2	9.27
890685 .		85HR5106 C	CLUB	61.8	72.4	0.30	93.9	5.5	52.8	9.14
890686 .		85HR5514 C	CLUB	63.0	72.2	0.31	93.0	6.7	53.4	9.46
890687 .		85HR5560 C	CLUB	63.7	71.9	0.29	93.9	7.0	53.1	9.19
890688 .		85HR6887 C	CLUB	61.7	73.3	0.28	96.3	6.2	53.9	9.67
890689 .		85HR5669 C	CLUB	62.7	70.7	0.29	92.4	6.5	54.4	9.76
890690 .		85HR5323 C	CLUB	61.0	72.9	0.32	93.3	6.1	54.5	9.21
890691 .		85HR5726 C	CLUB	61.8	69.6	0.32	89.1	7.5	51.4	9.37
890692 .		85HR223 CL	CLUB	63.7	70.6	0.37	87.3	6.8	55.2	8.50
890693 .		85HR6816 C	CLUB	64.0	69.7	0.28	91.7	8.5	53.5	9.31
890694 .		6/85HR6769 C	CLUB	63.3	72.5	0.32	92.8	8.0	50.6	9.45
890695 .		6/85HR5480 C	CLUB	63.1	72.1	0.32	92.2	6.6	51.7	9.42
890696 .		85HR5326 C	CLUB	58.5	74.3	0.40	90.1	6.7	50.4	9.34
890697 .		85HR5406 C	CLUB	60.2	72.8	0.33	92.5	6.3	52.5	9.31
890698 STEPHENS		C117596 SW	SW	61.8	72.2	0.37	89.3	6.6	52.8	9.89
890699 TRES		WA6698 CLU	CLUB	62.0	72.3	0.36	90.0	5.7	51.2	9.48
890700 OR855		OR855 CLUB	CLUB	62.7	70.6	0.34	89.1	6.2	52.7	9.37

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 7% protein.

4/ Observed values corrected to 7% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 26

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	RMKS
890674 .		85HR5540 C	CLUB	9.67	2L	
890675 .		85HR5597 C	CLUB	9.56	2L	
890676 .		85HR5568 C	CLUB	9.29	2L	
890677 .		85HR5441 C	CLUB	9.49	3L	
890678 .		85HR6518 C	CLUB	9.11	2L	Q-CODI, CODIC
890679 .		85HR5564 C	CLUB	9.40	3L	
890680 .		85HR5510 C	CLUB	9.82	5L	Q-MTYPE
890681 .		85HR5127 C	CLUB	9.73	2L	
890682 .		85HR6660 C	CLUB	9.54	2L	
890683 .		85HR5530 C	CLUB	10.04	2L	
890684 .		85HR5287 C	CLUB	9.27	2L	
890685 .		85HR5106 C	CLUB	9.03	2L	Q-CODI, CODIC
890686 .		85HR5514 C	CLUB	9.44	4L	Q-MABS, MTYPE
890687 .		85HR5560 C	CLUB	9.19	2L	Q-MABS, Q-CODI, CODIC
890688 .		85HR6887 C	CLUB	9.62	2L	Q-MABS
890689 .		85HR5669 C	CLUB	9.73	2L	Q-FYELD, Q-MABS
890690 .		85HR5323 C	CLUB	9.15	2L	Q-CODI, Q-MABS
890691 .		85HR5726 C	CLUB	9.41	1L	P-FYELD, Q-MSCOR
890692 .		85HR223 CL	CLUB	8.49	3L	Q-FYELD, Q-MSCOR, P-CODI, Q-MABS
890693 .		85HR6816 C	CLUB	9.42	2L	P-FYELD, Q-MABS
890694 .		85HR6769 C	CLUB	9.52	1L	
890695 .		85HR5480 C	CLUB	9.40	2L	
890696 .		85HR5326 C	CLUB	9.32	2L	
890697 .		85HR5406 C	CLUB	9.26	2L	
890698 STEPHENS		C117596 SW	SW	9.84	2L	
890699 TRES		WA6698 CLU	CLUB	9.38	1L	
890700 OR855		OR855 CLUB	CLUB	9.32	2L	Q-FYELD

COMMENTS: This nursery included some crosses which were better than the standards and these are noted. HR5530 is particularly promising in all respects. Some other cultivars with otherwise good quality characteristics were noted as having mixograph types which were atypically strong for club wheats, as well as processing a higher water absorption requirement than typical for club wheats.

NURSCO 27

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890701 .		5/ 85HR6735 C	CLUB	64.4	74.2	0.31	95.6	9.1	51.0	9.16
890702 .		85HR5710 C	CLUB	65.2	73.2	0.33	93.0	6.6	54.7	9.37
890703 .		85HR5643 C	CLUB	62.8	72.8	0.32	93.1	7.9	51.9	9.42
890704 .		6/ 85HR5350 C	CLUB	61.6	74.6	0.36	92.9	7.3	52.5	9.19
890705 .		6/ 85HR5335 C	CLUB	56.4	75.3	0.39	91.9	7.2	50.2	9.68
890706 .		5/ 85HR5585 C	CLUB	62.8	75.0	0.37	92.9	8.0	52.0	9.84
890707 .		5/ 85HR5494 C	CLUB	62.4	74.6	0.34	94.2	7.5	51.6	9.68
890708 .		85HR6557 C	CLUB	64.0	71.5	0.33	90.9	8.6	51.4	8.99
890709 .		5/ 85HR6537 C	CLUB	64.4	74.3	0.33	94.4	7.2	52.7	9.37
890710 .		6/ 85HR6578 C	CLUB	65.6	73.1	0.30	94.8	8.0	52.0	9.66
890711 .		85HR5933 C	CLUB	62.8	72.6	0.35	91.0	6.2	52.4	9.06
890712 STEPHENS		CI17596 SW	SWW	64.0	73.6	0.34	93.0	7.2	52.8	9.11
890713 TRES		WA6698 CLU	CLUB	62.4	73.4	0.34	92.7	6.1	50.5	9.46
890714 OR855		OR855 CLUB	CLUB	63.6	72.7	0.35	91.2	6.9	51.6	9.35

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 7% protein.

4/ Observed values corrected to 7% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

PRELIMINARY CLUB YIELD TRIAL #2 (914)

USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

P.K. ZWER

PENDLETON, OR

NURSCO 27

LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	RMKS
890701 .		85HR6735 C	CLUB	9.31	2M	
890702 .		85HR5710 C	CLUB	9.35	3L	
890703 .		85HR5643 C	CLUB	9.49	2L	
890704 .		85HR5350 C	CLUB	9.21	2L	
890705 .		85HR5335 C	CLUB	9.69	2L	
890706 .		85HR5585 C	CLUB	9.91	2L	
890707 .		85HR5494 C	CLUB	9.71	2L	
890708 .		85HR6557 C	CLUB	9.10	2M	Q-FYELD
890709 .		85HR6537 C	CLUB	9.39	2L	
890710 .		85HR6578 C	CLUB	9.73	3L	
890711 .		85HR5933 C	SW	8.97	2L	Q-CODI
890712 STEPHENS		CI17596 SW	CLUB	9.13	2L	
890713 TRES		WA6698 CLU	CLUB	9.40	1L	
890714 OR855		OR855 CLUB	CLUB	9.34	1L	

COMMENTS: This nursery averaged 7% flour protein. Several selections in this nursery had excellent milling properties and very good cookie spread. See those selections footnoted. See "Remarks" for selections having major deficiencies.

NURSCO 28

PENDLETON, OR

P. K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890715 .		5/ 85HR5714 C	CLUB	62.8	74.7	0.33	94.9	6.9	51.9	9.68
890716 .		85HR5565 C	CLUB	64.4	70.7	0.31	91.1	6.8	53.3	9.17
890717 .		85HR6823 C	CLUB	65.2	72.0	0.32	92.2	8.0	53.0	9.17
890718 .		85HR5611 C	CLUB	63.2	72.2	0.33	91.8	6.6	53.9	9.45
890719 .		5/ 85HR5288 C	CLUB	62.8	74.4	0.36	92.7	6.6	52.0	9.74
890720 .		85HR5341 C	CLUB	62.8	72.8	0.35	91.3	6.0	52.3	9.26
890721 .		5/ 85HR6730 C	CLUB	62.0	73.7	0.34	93.1	6.8	53.2	9.91
890722 .		5/ 85HR6762 C	CLUB	64.0	74.7	0.32	95.6	7.2	53.3	9.37
890723 .		85HR6942 C	CLUB	64.4	71.7	0.32	91.7	6.5	54.8	9.31
890724 .		6/ 85HR5541 C	CLUB	64.8	71.9	0.30	93.3	7.2	53.3	9.37
890725 .		85HR5678 C	CLUB	63.6	75.0	0.33	95.3	6.8	54.3	8.91
890726 .		6/ 85HR5661 C	CLUB	61.6	73.5	0.37	91.0	7.5	52.0	9.66
890727 .		6/ 85HR5698 C	CLUB	64.8	73.3	0.33	93.2	7.7	53.4	9.46
890728 .		85HR5574 C	CLUB	65.6	69.4	0.34	87.6	7.0	54.1	9.35
890729 .		85HR6889 C	CLUB	63.6	70.3	0.36	87.5	6.3	55.8	8.62
890730 .		6/ 85HR5598 C	CLUB	62.4	72.0	0.32	92.1	6.6	54.2	9.90
890731 .		H85A244 CL	CLUB	64.0	73.3	0.38	90.0	6.4	54.2	8.62
890732 .		H85A558 CL	CLUB	60.8	68.8	0.42	81.8	6.8	52.3	8.50
890733 .		6/ H85A965 CL	CLUB	64.8	72.5	0.31	93.4	6.6	54.2	9.54
890734 STEPHENS		CI17596 SW	SW	61.6	73.1	0.38	89.8	6.7	53.8	9.42
890735 TRES		WA6698 CLU	CLUB	62.4	72.9	0.36	90.8	6.2	51.6	9.65
890736 OR855		OR855 CLUB	CLUB	64.0	71.4	0.35	89.5	6.1	53.0	9.37

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 7% protein.

4/ Observed values corrected to 7% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 28

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	RMKS
890715 .		85HR5714 C	CLUB	9.67	1L	
890716 .		85HR5565 C	CLUB	9.16	2L	Q-FYELD
890717 .		85HR6823 C	CLUB	9.25	2L	
890718 .		85HR5611 C	CLUB	9.42	1L	
890719 .		85HR5288 C	CLUB	9.71	2L	
890720 .		85HR5341 C	CLUB	9.19	1L	
890721 .		85HR6730 C	CLUB	9.90	2L	
890722 .		85HR6762 C	CLUB	9.39	3L	
890723 .		85HR6942 C	CLUB	9.28	2L	
890724 .		85HR5541 C	CLUB	9.39	2L	
890725 .		85HR5678 C	CLUB	8.90	3L	Q-CODI
890726 .		85HR5661 C	CLUB	9.70	3L	
890727 .		85HR5698 C	CLUB	9.51	2L	
890728 .		85HR5574 C	CLUB	9.35	2L	P-FYELD
890729 .		85HR6889 C	CLUB	8.58	3L	P-FYELD, P-CODI
890730 .		85HR5598 C	CLUB	9.87	3L	
890731 .		H85A244 CL	CLUB	8.58	2M	P-CODI
890732 .		H85A558 CL	CLUB	8.49	2M	P-FYELD, P-CODI
890733 .		H85A965 CL	CLUB	9.51	3L	
890734 STEPHENS		C117596 SW	SWW	9.39	3L	
890735 TRES		WAG698 CLU	CLUB	9.59	2L	
890736 OR855		OR855 CLUB	CLUB	9.31	2L	

COMMENTS: This nursery averaged 7% flour protein. Several selections were footnoted and have very good milling properties and cookie diameters. See "Remarks" for selections having deficiencies.

NURSCO 29

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890737 .		H85A1406 C	CLUB	63.9	72.4	0.30	94.4	6.5	54.2	9.50
890738 .		6/ H85A430 CL	CLUB	60.6	74.1	0.33	94.7	7.0	53.3	9.24
890739 .		H85A1410 C	CLUB	62.0	72.3	0.32	93.1	7.4	53.1	9.40
890740 .		H85A1441 C	CLUB	63.1	73.6	0.35	92.8	7.1	53.1	9.25
890741 .		H85A771 CL	CLUB	62.2	72.1	0.32	92.8	7.1	53.5	9.14
890742 .		H85A1179 C	CLUB	62.6	71.3	0.37	88.6	6.1	52.6	9.17
890743 .		H85A60 CLU	CLUB	62.8	72.2	0.33	92.3	6.9	52.8	9.29
890744 .		H85A1482 C	CLUB	62.3	74.2	0.37	91.8	6.7	52.7	9.44
890745 .		H85A180 CL	CLUB	63.8	73.1	0.31	94.7	5.9	54.2	9.41
890746 .		H85A1467 C	CLUB	63.4	72.5	0.33	92.7	6.5	54.0	9.55
890747 .		H85A520 CL	CLUB	63.2	71.9	0.32	92.0	6.6	53.8	9.29
890748 .		85B1331 CL	CLUB	61.0	71.7	0.35	90.4	6.6	53.5	9.14
890749 .		85B585 CLU	CLUB	63.2	69.5	0.34	88.2	6.2	53.4	8.86
890750 .		85B1333 CL	CLUB	63.3	71.8	0.34	91.2	6.6	53.5	9.02
890751 .		HR12318 CL	CLUB	61.4	70.3	0.37	86.7	6.3	54.3	9.15
890752 .		HR8719 CLU	CLUB	62.6	70.8	0.36	88.6	6.1	54.2	9.15
890753 .		6/ HR5859 CLU	CLUB	62.9	74.0	0.33	94.0	6.5	53.0	9.37
890754 .		HR5949 CLU	CLUB	61.0	71.7	0.39	87.8	5.5	52.8	9.11
890755 STEPHENS		CI17596 SW	SW	60.7	73.0	0.36	91.4	5.8	53.3	9.24
890756 TRES		WA6698 CLU	CLUB	62.6	74.8	0.38	92.1	6.3	49.9	9.50
890757 OR855		OR855 CLUB	CLUB	63.3	71.0	0.36	88.3	6.1	50.4	9.40

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 6% protein.

4/ Observed values corrected to 6% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	RMKS
890737 .		H85A1406 C	CLUB	9.54	2L	
890738 .		H85A430 CL	CLUB	9.31	3L	
890739 .		H85A1410 C	CLUB	9.50	2L	
890740 .		H85A1441 C	CLUB	9.33	3L	
890741 .		H85A771 CL	CLUB	9.22	1L	
890742 .		H85A1179 C	CLUB	9.18	2L P-FYELD	
890743 .		H85A60 CLU	CLUB	9.35	3L	
890744 .		H85A1482 C	CLUB	9.49	3L	
890745 .		H85A180 CL	CLUB	9.41	1L	
890746 .		H85A1467 C	CLUB	9.59	2L	
890747 .		H85A520 CL	CLUB	9.33	2L	
890748 .		85B1331 CL	CLUB	9.18	1L Q-FYELD	
890749 .		85B585 CLU	CLUB	8.88	2L P-FYELD, P-COD1	
890750 .		85B1333 CL	CLUB	9.07	1L Q-FYELD, Q-COD1	
890751 .		HR12318 CL	CLUB	9.17	3L P-FYELD	
890752 .		HR8719 CLU	CLUB	9.16	4L P-FYELD	
890753 .		HR5859 CLU	CLUB	9.41	2L	
890754 .		HR5949 CLU	CLUB	9.08	2L Q-FYELD, P-Q-FASH, P-Q-MSCOR, Q-COD1	
890755 STEPHENS		CI17596 SW	SW	9.22	2L	
890756 TRES		WA6698 CLU	CLUB	9.52	1L	
890757 OR855		OR855 CLUB	CLUB	9.41	2L P-Q-FYELD	

COMMENTS: Most of the selections had good cookie diameters. A few selections had poor to questionable milling properties (flour yield). Two selections were footnoted, however, a few of the other selections were nearly equal to the checks (Stephens and Tres) in milling and baking properties. See "Footnotes" and "Remarks".

KANSAS

NURSCO 30

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890758 .		89801	HRW	60.0	71.4	0.50	78.3	13.9	63.0	4H
890759 .		89802	HRW	60.0	71.4	0.47	80.1	14.4	66.7	5H
890760 .		89803	HRW	60.0	71.4	0.46	80.6	13.9	66.3	3H
890761 .		89804	HRW	60.0	71.4	0.50	78.7	13.8	67.2	4H
890762 .		89805	HRW	60.0	71.4	0.49	79.2	14.3	66.7	3H
890763 .		89806	HRW	60.0	71.4	0.49	79.0	14.3	66.0	6H
890764 .		89808	HRW	60.0	71.4	0.45	81.0	14.9	66.3	4H
890765 .		89809	HRW	60.0	71.4	0.44	81.5	13.3	64.3	7M
890766 .		89810	HRW	60.0	71.4	0.51	78.1	14.3	66.8	5H
890767 .		89811	HRW	60.0	71.4	0.53	77.1	13.9	66.0	3H
890768 .		89812	HRW	60.0	71.4	0.52	77.7	14.0	66.8	4H

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 14% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 14% protein.

NURSCO 30

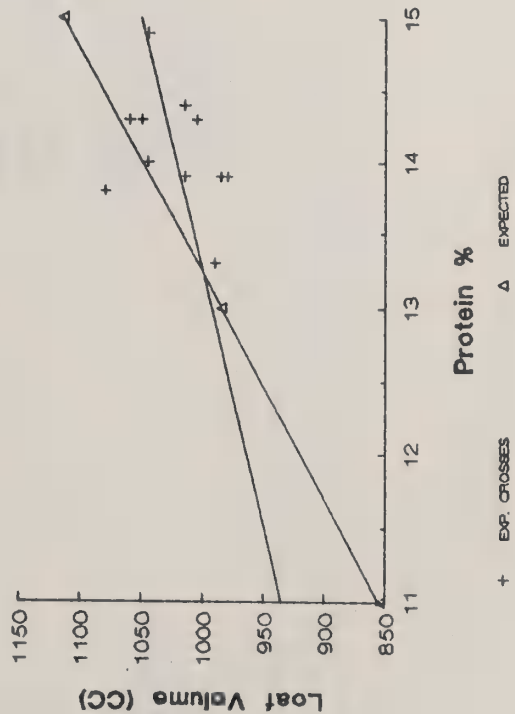
KANSAS

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
890758 .	HRW	89801	HRW	64.6	64.7	3.0	985	991	3	LOW BABS, LOW LVOL
890759 .	HRW	89802	HRW	68.8	68.4	4.1	1015	990	2	LOW LVOL
890760 .	HRW	89803	HRW	68.9	69.0	2.5	1015	1021	2	Q-LVOL, Q-M-TIME
890761 .	HRW	89804	HRW	69.7	69.9	4.5	1080	1092	2	
890762 .	HRW	89805	HRW	68.7	68.4	3.1	1005	986	2	LOW LVOL
890763 .	HRW	89806	HRW	68.0	67.7	6.6	1060	1041	1	
890764 .	HRW	89808	HRW	69.9	69.0	4.2	1045	989	2	LOW LVOL
890765 .	HRW	89809	HRW	67.3	68.0	3.5	990	1033	2	
890766 .	HRW	89810	HRW	69.8	69.5	4.4	1050	1031	4	Q-BCRGR
890767 .	HRW	89811	HRW	67.6	67.7	4.1	980	986	2	LOW LVOL
890768 .	HRW	89812	HRW	70.0	70.0	4.1	1045	1045	3	

COMMENTS: These samples were baked in collaboration

with the Hard Red Winter Wheat Quality Council, Manhattan, KS. They represent new varietal selections under consideration for release in the Great Plains States. The selections were coded, "See Remarks".

LOAF VOLUME VS PROTEIN



USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

ADVANCED PRELIMINARY CLUB YT (924)

P.K. ZWER

MORO, OR

NURSCO 31

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	MABSC	CODI
890769 .		871081 CLU	CLUB	60.3	65.9	0.37	81.2	10.3	54.7	9.00
890770 .		871082 CLU	CLUB	59.1	64.0	0.37	78.7	11.2	54.3	8.89
890771 .		87883 CLUB	CLUB	58.4	71.1	0.44	83.3	9.1	52.7	9.29
890772 .		87996 CLUB	CLUB	62.3	70.2	0.36	87.9	10.5	55.1	8.96
890773 .		871032 CLU	CLUB	61.1	70.6	0.39	85.8	9.3	54.9	9.21
890774 .		871066 CLU	CLUB	61.0	68.4	0.39	83.1	10.1	54.5	9.35
890775 .		87985 CLUB	CLUB	58.1	68.6	0.39	83.3	10.2	55.5	9.29
890776 .		87988 CLUB	CLUB	61.5	67.9	0.37	84.3	10.2	55.0	9.05
890777 .		871072 CLU	CLUB	64.0	70.0	0.33	89.5	9.0	55.2	9.15
890778 .		871091 CLU	CLUB	61.6	69.6	0.36	86.5	10.6	53.5	9.40
890779 .		87915 CLUB	CLUB	61.2	71.4	0.38	88.1	7.7	54.5	9.39
890780 .		87989 CLUB	CLUB	58.8	64.0	0.38	78.1	11.2	53.4	9.16
890781 .		871040 CLU	CLUB	60.2	67.3	0.38	82.3	10.5	53.5	9.10
890782 .		871043 CLU	CLUB	59.9	68.3	0.41	81.7	10.3	54.2	9.31
890783 .		871084 CLU	CLUB	64.6	70.1	0.34	89.0	8.7	55.4	9.16
890784 .		5/87884 CLUB	CLUB	60.1	70.6	0.37	87.1	8.9	51.7	9.74
890785 .		87987 CLUB	CLUB	60.4	66.5	0.36	82.6	9.3	54.2	9.31
890786 .		87955 CLUB	CLUB	63.3	68.7	0.34	87.2	9.5	55.1	9.27
890787 .		85HR5699 C	CLUB	61.0	68.6	0.36	85.2	9.7	54.3	9.58
890788 .		85HR5647 C	CLUB	61.0	66.6	0.35	83.9	9.8	53.3	9.30
890789 .		6/85HR6962 C	CLUB	62.1	70.0	0.34	88.8	10.0	53.7	9.42
890790 .		6/85HR5508 C	CLUB	63.0	69.6	0.33	88.4	9.6	52.7	9.56
890791 STEPHENS		C117596 SW	SW	61.9	69.0	0.35	86.4	9.7	53.6	9.27
890792 TRES		WA6698 CLU	CLUB	61.7	69.6	0.38	85.3	8.9	50.4	9.41
890793 .		OR855 CLUB	CLUB	63.3						

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 10% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 10% protein.

NURSCO 31

MORO, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	CAVOL	SCSOR	RMKS
				4/				
890769 .		871081 CLU	CLUB	9.02	2M	1030	53.0	P-FYELD, Q-MSCOR, Q-CODI, P-CAVOL, P-SCSOR
890770 .		871082 CLU	CLUB	8.97	2M	1110	60.0	Q-TWT, P-FYELD, P-MSCOR, P-CODI, Q-CAVOL
890771 .		87883 CLUB	CLUB	9.22	1M	1260	74.0	Q-TWT, Q-MSCOR
890772 .		87996 CLUB	CLUB	9.00	2M	925	49.0	Q-MABS, P-CODI, P-CAVOL, P-SCSOR
890773 .		871032 CLU	CLUB	9.16	2M	1150	66.0	Q-MABS, Q-CODI, Q-CAVOL, Q-SCSOR
890774 .		871066 CLU	CLUB	9.36	3M	1160	60.0	Q-FYELD, Q-MSCOR, Q-MABS, Q-CAVOL, Q-SCSOR
890775 .		87985 CLUB	CLUB	9.30	2M	1140	63.0	Q-TWT, Q-FYELD, Q-MSCOR, Q-MABS, Q-CAVOL
890776 .		87988 CLUB	CLUB	9.06	3M	1250	71.0	P-FYELD, Q-MABS, Q-CODI
890777 .		871072 CLU	CLUB	9.08	3M	1210	66.0	Q-MABS, Q-CODI, Q-CAVOL, Q-SCSOR
890778 .		871091 CLU	CLUB	9.44	2M	1230	65.0	Q-CAVOL, Q-SCSOR
890779 .		87915 CLUB	CLUB	9.22	2L	1255	72.0	Q-MABS
890780 .		87989 CLUB	CLUB	9.25	2M	1190	67.0	P-FYELD, P-MSCOR, Q-CODI, Q-CAVOL
890781 .		871040 CLU	CLUB	9.14	2M	1155	63.0	Q-FYELD, Q-MSCOR, Q-CODI, Q-CAVOL, Q-SCSOR
890782 .		871043 CLU	CLUB	9.33	2M	1245	73.0	Q-FYELD, Q-MSCOR, Q-MABS
890783 .		871084 CLU	CLUB	9.07	2M	1215	71.0	Q-MABS, Q-CODI, Q-CAVOL
890784 .		87884 CLUB	CLUB	9.66	1M	1335	80.0	
890785 .		87987 CLUB	CLUB	9.26	2M	1330	79.0	Q-FYELD, Q-MSCOR
890786 .		87955 CLUB	CLUB	9.24	3M	1240	73.0	Q-FYELD, Q-MABS
890787 .		85HR5699 C	CLUB	9.55	2M	1195	69.0	Q-FYELD, Q-MABS, Q-CAVOL, Q-SCSOR
890788 .		85HR5647 C	CLUB	9.29	2M	1335	79.0	Q-FYELD, Q-MSCOR
890789 .		85HR6962 C	CLUB	9.42	1M	1275	72.0	
890790 .		85HR5508 C	CLUB	9.53	1M	1270	73.0	
890791 STEPHENS		C117596 SW	SW	9.24	2M	1260	71.0	
890792 .		WA6698 CLU	CLUB	9.33	1M	1285	73.0	
890793 .		OR855 CLUB	CLUB					

COMMENTS: Probably due to environmental factors, the flour yield on this entire nursery is low, especially for club wheats.
The mixograph absorption was also somewhat elevated in some cultivars. Several crosses had overall promising characteristics. OR855 was lost during milling.

USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

PRELIMINARY CLUB YT #2 (056)

NURSCO 32

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890794 85HR6541		.	CLUB	59.2	70.5	0.35	88.3	13.7	53.1	8.79
890795 85HR6609		.	CLUB	60.8	69.1	0.39	84.1	13.4	52.5	8.68
890796 85HR5639		.	CLUB	60.4	68.9	0.37	85.1	13.2	54.6	8.91
890797 85HR6825		.	CLUB	60.4	70.5	0.33	89.7	11.4	54.0	9.37
890798 85HR6829		.	CLUB	60.0	73.4	0.31	94.5	8.6	56.5	9.33
890799 85HR6827		.	6/CLUB	62.8	72.9	0.32	93.3	8.5	56.4	9.60
890800 85HR5857		.	6/CLUB	56.0	74.0	0.35	92.8	8.6	55.7	9.62
890801 H85A247		.	6/CLUB	60.8	73.2	0.31	94.3	8.4	57.2	9.51
890802 85HR5857		.	6/CLUB	60.0	74.1	0.35	93.0	11.5	56.0	9.25
890803 H85A211		.	CLUB	58.0	72.4	0.38	89.0	10.7	53.7	9.07
890804 85A261-1		.	CLUB	62.4	72.9	0.34	92.1	10.7	55.3	9.29
890805 85A74-36		.	6/CLUB	59.6	75.1	0.34	94.9	10.6	54.4	9.35
890806 85A74-49		.	6/CLUB	62.4	73.6	0.32	94.2	10.7	54.8	9.40
890807 85A318-20		.	5/CLUB	60.0	74.2	0.32	94.9	11.4	54.2	9.65
890808 85A318-24		.	CLUB	59.2	72.3	0.33	91.9	10.8	54.2	9.15
890809 85A290-56		.	CLUB	62.0	71.8	0.31	92.6	12.9	52.8	9.12
890810 H85A722		.	CLUB	54.8	68.9	0.36	85.8	13.7	53.1	9.01
890811 85A278-4		.	CLUB	60.4	71.9	0.29	93.9	10.9	55.1	9.15
890812 85A278-5		.	CLUB	61.2	71.0	0.29	92.8	9.5	55.0	9.29
890813 85B1157		.	CLUB	58.4	70.8	0.41	85.0	9.5	52.9	9.46
890814 85B1146		.	CLUB	58.0	71.5	0.34	90.3	13.4	53.0	9.36
890815 85B1161		.	CLUB	61.2	72.6	0.35	91.1	9.7	53.3	9.16
890816 700099		.	CLUB	60.4	73.7	0.38	90.6	9.5	53.5	9.23
890817 700118		.	CLUB	57.6	71.2	0.37	88.0	11.2	54.3	9.43
890818 700118-65		.	CLUB	56.4	68.6	0.35	86.0	10.3	54.1	9.34
890819 85HR5556		.	CLUB	54.8	67.9	0.37	83.8	14.5	53.4	8.92
890820 TRES		CI017917	CLUB	55.6	72.2	0.38	88.7	9.9	53.1	9.44
890821 ELGIN		CI011755	CLUB	61.6	72.3	0.37	89.4	11.6	49.9	9.46
890822 FARO		CI017590	CLUB	61.2	73.4	0.35	92.0	9.2	51.6	9.55

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

USDA, ARS
WESTERN WHEAT QUALITY LAB.
PULLMAN, WA.

PRELIMINARY CLUB YT #2 (056)

P. K. ZWER

PENDLETON, OR

NURSCO 32

LABNUM	VARIETY	IDNO	CLASS	COOIC 4/	MTYPE	RMKS
890794 85HR6541		.	CLUB	8.98	2M	Q-FYELD, Q-COD1
890795 85HR6609		.	CLUB	8.85	1H	P-FYELD, P-COD1
890796 85HR5639		.	CLUB	9.07	1H	P-FYELD
890797 85HR6825		.	CLUB	9.40	2M	Q-FYELD
890798 85HR6829		.	CLUB	9.15	5L	
890799 85HR6827		.	CLUB	9.42	3L	
890800 85HR5857		.	CLUB	9.45	8L	
890801 H85A247		.	CLUB	9.33	7L	
890802 85HR5857		.	CLUB	9.29	3M	
890803 H85A211		.	CLUB	9.05	2M	
890804 85A261-1		.	CLUB	9.27	3M	
890805 85A74-36		.	CLUB	9.32	2M	
890806 85A74-49		.	CLUB	9.38	2M	
890807 85A318-20		.	CLUB	9.68	2M	
890808 85A318-24		.	CLUB	9.14	3M	
890809 85A290-56		.	CLUB	9.26	1M	
890810 H85A722		.	CLUB	9.20	1H	P-FYELD
890811 85A278-4		.	CLUB	9.14	2M	
890812 85A278-5		.	CLUB	9.18	2L	Q-FYELD
890813 8581157		.	CLUB	9.36	2L	Q-FYELD, P-MSCOR
890814 8581146		.	CLUB	9.53	2M	
890815 8581161		.	CLUB	9.07	2L	
890816 700099		.	CLUB	9.12	2M	
890817 700118		.	CLUB	9.44	3M	Q-FYELD
890818 700118-65		.	CLUB	9.29	3M	P-FYELD
890819 85HR5556		.	CLUB	9.17	1H	P-FYELD
890820 TRES		C1017917	CLUB	9.36	2M	
890821 ELGIN		C1011755	CLUB	9.51	1M	
890822 FARO		C1017590	CLUB	9.42	1M	

COMMENTS: There was considerable variability in flour protein in this nursery (from 8.4 to 14.5%). Cookie diameters were very good to excellent for most selections. A few selections had questionable or poor flour yields. See "Remarks" for additional deficiencies. Several selections were footnoted which had overall promising quality characteristics. In particular, selection 85A318-20 had excellent milling properties and cookie spread.

NURSCO 33

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	COD1
890823 85HR5641		6/-	CLUB	60.0	72.7	0.34	91.8	8.3	55.2	9.54
890824 85HR5662		.	CLUB	60.0	67.3	0.32	86.1	7.8	56.0	9.27
890825 85HR6846		.	CLUB	61.6	76.7	0.34	96.9	11.1	55.0	8.99
890826 85HR5687		.	CLUB	61.6	71.4	0.32	91.4	8.5	55.3	9.65
890827 85HR5575		.	CLUB	60.0	72.9	0.30	94.6	9.2	55.2	9.21
890828 85HR5333		.	CLUB	56.4	71.2	0.39	86.7	7.8	54.5	9.16
890829 85HR5614		.	CLUB	60.0	72.4	0.34	91.4	8.2	57.6	9.23
890830 85HR6510		.	CLUB	60.8	71.6	0.28	94.7	10.5	56.7	9.21
890831 85HR6468		.	CLUB	58.0	70.4	0.36	87.7	10.1	55.8	8.95
890832 85HR5506		.	CLUB	61.6	72.6	0.35	91.1	9.3	55.2	9.40
890833 85HR6919		.	CLUB	60.0	71.0	0.36	88.4	12.7	57.2	9.12
890834 85HR5706		.	CLUB	61.6	70.0	0.32	90.1	7.2	57.8	9.64
890835 85HR6842		.	CLUB	60.8	70.5	0.35	88.5	12.9	56.9	8.81
890836 85HR6806		.	CLUB	61.6	68.7	0.36	85.5	11.0	56.9	9.10
890837 85HR6320		.	CLUB	58.8	71.0	0.38	87.2	11.5	57.3	8.91
890838 85HR6576		.	CLUB	61.2	70.1	0.37	86.7	12.0	57.6	9.12
890839 85HR6541		.	CLUB	58.8	69.7	0.40	84.3	11.9	55.0	8.95
890840 85HR6611		.	CLUB	55.2	65.3	0.42	77.4	12.6	56.8	8.74
890841 85HR6679		.	CLUB	54.4	68.0	0.37	84.0	12.6	55.7	9.29
890842 85HR6611		.	CLUB	60.4	69.3	0.39	84.5	13.1	57.0	8.59
890843 85HR6611		.	CLUB	59.6	64.4	0.42	76.2	13.2	57.3	8.60
890844 85HR6582		.	CLUB	60.8	69.8	0.36	86.9	13.1	56.7	8.87
890845 85HR6562		.	CLUB	57.6	70.0	0.36	87.1	10.7	54.7	9.12
890846 85HR6557		.	CLUB	58.4	68.5	0.41	82.1	12.0	55.5	8.56
890847 85HR6633		.	CLUB	60.8	68.7	0.39	83.6	12.6	56.9	8.64
890848 TRES		CI017917	CLUB	61.2	70.3	0.39	85.7	11.1	51.8	9.14
890849 ELGIN		CI011755	CLUB	60.0	71.2	0.40	86.2	11.6	50.8	9.26
890850 FARO		CI017590	CLUB	54.4	70.4	0.42	83.9	10.4	51.9	9.12

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 33

PENDLETON, OR

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	RMKS
890823	85HR5641	.	CLUB	9.35	3L	P-FYELD
890824	85HR5662	.	CLUB	9.05	8L	EXCELLENT FYELD & MSCOR
890825	85HR6846	.	CLUB	8.99	2M	
890826	85HR5687	.	CLUB	9.47	3L	VERY GOOD MSCOR
890827	85HR5575	.	CLUB	9.08	2L	
890828	85HR5333	.	CLUB	8.94	2L	P-TWT, Q-COD1
890829	85HR5614	.	CLUB	9.03	3L	
890830	85HR6510	.	CLUB	9.18	4M	VERY GOOD MSCOR
890831	85HR6468	.	CLUB	8.89	3M	Q-FYELD, Q-COD1
890832	85HR5506	.	CLUB	9.28	3L	
890833	85HR6919	.	CLUB	9.25	1H	
890834	85HR5706	.	CLUB	9.37	5L	Q-FYELD
890835	85HR6842	.	CLUB	8.95	1H	Q-FYELD, Q-COD1
890836	85HR6806	.	CLUB	9.10	2M	P-FYELD
890837	85HR6320	.	CLUB	8.95	1H	Q-COD1
890838	85HR6576	.	CLUB	9.20	2M	Q-FYELD
890839	85HR6541	.	CLUB	9.01	2M	Q-FYELD, Q-MSCOR
890840	85HR6611	.	CLUB	8.85	2M	P-TWT, VP-FYELD, Q-COD1
890841	85HR6679	.	CLUB	9.40	1M	P-TWT, P-FYELD
890842	85HR6611	.	CLUB	8.74	1H	P-FYELD, P-COD1
890843	85HR6611	.	CLUB	8.76	1H	VP-FYELD, P-COD1
890844	85HR6582	.	CLUB	9.02	2M	Q-FYELD
890845	85HR6562	.	CLUB	9.10	3M	Q-FYELD
890846	85HR6557	.	CLUB	8.63	1H	P-FYELD, P-COD1
890847	85HR6633	.	CLUB	8.75	2H	P-FYELD, P-COD1
890848	TRES	C1017917	CLUB	9.14	1M	
890849	ELGIN	C101755	CLUB	9.31	1M	
890850	FARO	C1017590	CLUB	9.08	2M	

COMMENTS: This nursery averaged 11% flour protein. There was considerable variability in flour protein (range of 7.2 to 13.1%). The major deficiency was poor to questionable flour yield for several selections. A few selections had poor to questionable cookie diameters. See "Remarks" for other comments. Selection 85HR5641 was footnoted for its good overall quality characteristics. Selection 85HR6846 had excellent flour yield. Selections 85HR5575 and 85HR6510 had good flour yields, low ash content and very good milling scores.

NURSCO 34

CULDESAC, ID

W.L. MCPROUD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890851	DAWS	C1017419	SWW	62.8	70.2	0.33	89.8	9.5	56.1	9.14
890852	STEPHENS	C1017596	SWW	62.0	72.7	0.35	91.1	10.3	54.7	9.01
890854	SYRINGA	80-WW-5	SWW	59.2	68.6	0.38	84.0	10.7	53.8	9.15
890855	79-WW-57A	.	SWW	58.8	67.9	0.38	83.1	10.5	54.5	9.08
890856	83-WW-11	.	SWW	61.6	68.7	0.32	88.5	10.1	53.9	9.15
890857	83-WW-23	.	SWW	60.8	67.7	0.36	84.1	10.8	53.7	8.74
890858	83-WW-36	.	SWW	59.6	66.8	0.37	82.4	11.3	53.0	8.91
890859	83-WW-41	.	SWW	59.6	68.5	0.32	88.2	10.7	52.8	9.15
890860	83-WW-43	.	SWW	58.4	68.4	0.31	88.8	10.8	51.1	9.10
890861	83-WW-53	6/.	SWW	63.2	71.7	0.33	91.1	10.3	52.6	9.27
890862	83-WW-56	6/.	SWW	60.8	73.9	0.32	94.5	9.8	53.1	9.10
890863	83-WW-57	6/.	SWW	63.2	70.8	0.33	89.9	9.8	54.1	9.29
890864	83-WW-58	6/.	SWW	63.2	71.5	0.32	92.0	10.7	52.9	9.00
890865	83-WW-59	.	SWW	61.6	69.2	0.37	85.4	11.1	52.7	9.36
890866	83-WW-111	.	SWW	61.2	67.4	0.36	83.7	10.5	56.4	9.06
890867	83-WW-132	.	SWW	62.8	67.6	0.32	86.5	10.0	53.9	9.31
890868	83-WW-134	.	SWW	62.4	68.4	0.35	85.7	10.6	53.5	9.17
890869	83-WW-176	.	SWW	64.8	69.8	0.33	88.7	9.8	55.6	9.17
890870	83-WW-191	6/.	SWW	62.0	71.6	0.33	91.0	10.6	55.8	9.31
890871	83-WW-196	.	SWW	62.8	67.4	0.31	86.9	10.7	54.7	9.02
890872	85-WW-1	6/.	SWW	63.2	71.1	0.31	91.6	10.6	54.7	9.18
890873	85-WW-5	6/.	SWW	63.6	72.2	0.31	93.6	10.5	55.5	9.14
890874	85-WW-6	6/.	SWW	62.8	71.4	0.32	91.4	10.0	54.8	9.37
890875	87-WW-71	.	SWW	65.2	69.8	0.30	90.6	10.7	57.6	9.15
890876	87-WW-74	6/.	SWW	64.4	70.2	0.31	91.1	11.1	56.3	9.20
890877	87-WW-85	.	SWW	63.6	68.9	0.31	88.8	10.8	58.0	8.85
890878	87-WW-87	.	SWW	64.4	68.4	0.32	87.5	11.0	57.3	8.99
890879	87-WW-106	.	SWW	56.4	70.0	0.41	83.9	9.7	57.1	9.80
890880	87-WW-145	6/.	SWW	63.2	71.5	0.32	91.5	10.4	57.0	9.09
890881	87-WW-147	.	SWW	60.8	70.2	0.32	89.8	10.7	56.1	9.09

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 34

CULDESAC, ID

W.L. MCPROUD

LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	RMKS
890851	DAWS	C1017419	SWW	8.97	4M	
890852	STEPHENS	C1017596	SWW	8.94	2M	
890854	SYRINGA	80-WW-5	SWW	9.12	3M	
890855	79-WW-57A	.	SWW	9.02	3M	Q-TWT, Q-FYELD
890856	83-WW-11	.	SWW	9.05	2M	Q-FYELD
890857	83-WW-23	.	SWW	8.72	1M	Q-FYELD, Q-COD1
890858	83-WW-36	.	SWW	8.95	1M	P-FYELD
890859	83-WW-41	.	SWW	9.12	1M	
890860	83-WW-43	.	SWW	9.08	1H	Q-TWT
890861	83-WW-53	.	SWW	9.20	1M	
890862	83-WW-56	.	SWW	8.97	2M	
890863	83-WW-57	.	SWW	9.16	2M	
890864	83-WW-58	.	SWW	8.97	2M	
890865	83-WW-59	.	SWW	9.37	1M	Q-FYELD
890866	83-WW-111	.	SWW	9.01	3M	P-FYELD
890867	83-WW-132	.	SWW	9.20	2M	P-FYELD
890868	83-WW-134	.	SWW	9.13	1M	Q-FYELD
890869	83-WW-176	.	SWW	9.04	3M	
890870	83-WW-191	.	SWW	9.27	2M	
890871	83-WW-196	.	SWW	8.99	2M	P-FYELD
890872	85-WW-1	.	SWW	9.13	1M	
890873	85-WW-5	.	SWW	9.08	1M	
890874	85-WW-6	.	SWW	9.27	3M	
890875	87-WW-71	.	SWW	9.12	4M	
890876	87-WW-74	.	SWW	9.21	4M	
890877	87-WW-85	.	SWW	8.83	4M	Q-COD1
890878	87-WW-87	.	SWW	8.99	1M	Q-FYELD
890879	87-WW-106	.	SWW	9.66	2M	P-FASH, P-MSCOR
890880	87-WW-145	.	SWW	9.02	1M	
890881	87-WW-147	.	SWW	9.05	2M	

NURSCO 34

CULDESAC, ID

W. L. MCPROUD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	COOI
890882	87-WW-149	.	SWW	60.4	70.5	0.32	90.3	10.6	55.3	9.06
890883	87-WW-150	.	SWW	64.0	70.7	0.33	89.9	10.7	54.8	9.00
890884	87-WW-152	6/	SWW	62.4	71.1	0.32	91.0	10.7	54.9	9.06
890885	88-WW-24	.	SWW	62.4	70.5	0.36	87.7	10.7	54.7	8.37
890886	88-WW-25	6/	SRW	63.6	70.5	0.32	90.2	12.2	54.6	9.25
890887	88-WW-27	.	SRW	61.2	72.7	0.36	90.6	12.1	52.9	8.80
890888	88-WW-52	.	SRW	63.6	69.6	0.32	89.1	11.8	53.8	9.46
890889	12/18//HILL	SEL38	SWW	65.6	71.1	0.33	90.3	10.9	53.5	9.12
890890	12/18//HILL	SEL45	SWW	62.8	68.4	0.34	86.3	11.5	54.1	9.26

LABNUM	VARIETY	IDNO	CLASS	COOIC 4/	MTYPE	RMKS
890882	87-WW-149	.	SWW	9.02	1M	
890883	87-WW-150	.	SWW	8.97	3M	
890884	87-WW-152	.	SWW	9.03	3M	
890885	88-WW-24	.	SWW	8.34	1H	Q-MSCOR, P-COD1
890886	88-WW-25	.	SRW	9.38	1M	
890887	88-WW-27	.	SRW	8.92	2M	
890888	88-WW-52	.	SRW	9.55	2M	
890889	12/18//HILL	SEL38	SWW	9.11	3M	
890890	12/18//HILL	SEL45	SWW	9.32	1H	Q-FYELD

COMMENTS: The check varieties (Daws and Stephens) had better milling properties than did Syringa. Comparisons of the selections were made to Daws and Stephens rather than Syringa. Several selections were footnoted and have milling and baking properties equal to or better than Daws and Stephens. Nearly all selections had good cookie spread. See "Remarks" and "Footnotes".

NURSCO 35

LIND, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890891	COPPER	PI502644	HRS	61.3	68.0	0.35	80.5	13.3	66.3	5H
890892	SPILLMAN	WA007075	HRS	59.4	68.4	0.39	79.5	13.5	64.6	5H
890893	K76130 K7205078/(CI14193,RED RIVER 68-1)	WA007326	HRS	60.2	68.5	0.38	79.8	14.2	66.5	8H
890894	NDM00004/NK000751 S82-62	WA007493	HRS	60.6	69.2	0.36	81.3	12.6	65.1	4H
890895	NDM00004/NK000751 S82-66	WA007494	HRS	60.3	69.3	0.38	80.4	12.8	64.3	4H
890896	WA006823 CI017689/WARED,K74102-118 NZ SE	WA007495	HRS	57.9	67.1	0.36	78.4	13.7	64.7	3H
890897	NDM00004/NK000751 S83-07	WA007562	HRS	57.1	68.3	0.41	77.0	14.6	65.0	3H
890898	NDM00004/NK000751 S83-13	WA007563	HRS	59.0	68.0	0.38	77.7	14.8	66.3	4H
890899	NK000751/NDM00011 S82-18	WA007629	HRS	60.2	69.5	0.38	80.5	12.7	64.5	3H
890900	UT881292/ID167	WA007667	HRS	57.2	65.5	0.37	74.1	14.2	68.4	7H
890901	K80296/NK761011	WA007668	HRS	59.9	68.4	0.38	77.6	13.1	66.3	3H
890902	WALD/PRODAX//BORAH	ID000411	HRS	61.8	69.9	0.36	79.2	13.1	65.2	5H
890903	A76102S-1-2/EMU"S"	ID000412	HRS	62.4	67.2	0.36	77.3	13.7	65.0	6H
890904	A7647S-2-2/ID0195-1	ID000413	HRS	62.6	68.0	0.35	78.3	13.1	64.2	5H
890905	ID0203-1/AZT-PVN"S"	ID000414	HRS	61.6	67.3	0.39	75.2	14.3	68.3	6H
890906	MINIVET S.	OR485010	HRS	61.4	66.6	0.38	75.3	12.9	64.7	5H
890907	VEE.S/3/KLTO/PATO19//MO/JUP	OR487462	HRS	61.3	65.3	0.40	70.7	14.0	67.1	5H
890908	TAN.S./PEW.S	OR487255	HWS	61.9	67.0	0.35	77.5	12.9	66.9	5H
890909	RL6040/YR 4	OR487380	HWS	59.7	68.5	0.36	78.7	13.5	65.3	5H
890910	LEN	ND	HRS	61.4	68.1	0.40	77.3	14.3	67.3	5H
890911	LEN/COTEAU SIB//ERA	ND000618	HRS	60.7	68.1	0.39	77.7	14.7	66.9	3H

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 14% protein.

4/ Observed values corrected to 14% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

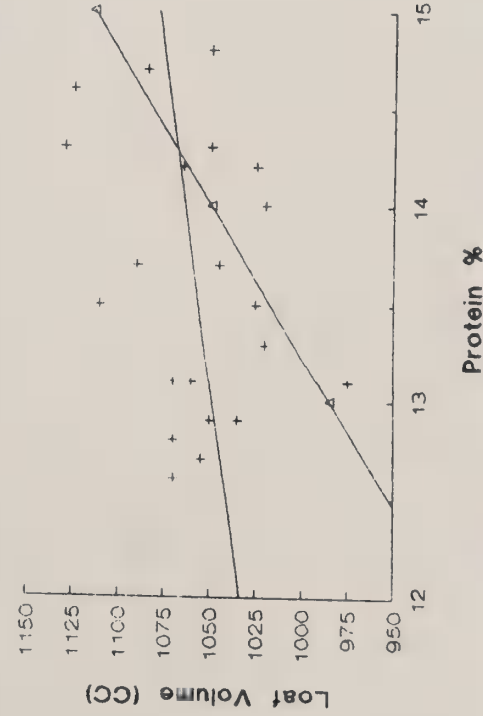
NURSCO 35

LIND, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
890891	COPPER	P1502644	HRS	64.8	65.5	4.4	1020	1063	3	
890892	SPILLMAN	WA007075	HRS	63.3	63.8	4.0	1025	1056	3	
890893	K76130 K7205078/(CI14193,RED RIVER 68-1)	WA007326	HRS	65.9	65.7	9.0	1025	1013	3	MTIME-Too long,Q-LVOL
890894	NDM00004/NK000751 S82-62	WA007493	HRS	62.9	64.3	3.5	1070	1157	2	
890895	NDM00004/NK000751 S82-66	WA007494	HRS	62.3	63.5	3.9	1070	1144	2	
890896	WA006823 C1017689/WARED,K74102-118 NZ SE	WA007495	HRS	63.6	63.9	3.4	1045	1064	2	P-FYELD
890897	NDM00004/NK000751 S83-07	WA007562	HRS	64.8	64.2	3.4	1125	1088	2	Q-FYELD,Q-MSCOR
890898	NDM00004/NK000751 S83-13	WA007563	HRS	65.8	65.0	3.9	1050	1000	2	Q-FYELD,Q-MSCOR,P-LVOL
890899	NK000751/NDM00011 S82-18	WA007629	HRS	61.9	63.2	3.1	1055	1136	2	
890900	UT881292/ID167	WA007667	HRS	68.8	68.6	8.7	1065	1053	2	P-FYELD,MTIME-Too long
890901	K80296/NK761011	WA007668	HRS	65.6	66.5	2.7	1070	1126	2	Q-MSCOR
890902	WALD/PRODAX//BORAH	ID000411	HRS	64.5	65.4	4.7	1060	1116	2	
890903	A76102S-1-2/EMUS"	ID000412	HRS	63.9	64.2	6.1	1090	1109	4	P-FYELD,Q-MSCOR,Q-S-BCRGR
890904	A7647S-2-2/ID0195-1	ID000413	HRS	62.5	63.4	5.1	975	1031	4	Q-MSCOR,Q-LVOL
890905	ID0203-1/AZT-PVN"S"	ID000414	HRS	67.8	67.5	7.7	1050	1031	2	P-FYELD,P-MSCOR,MTIME-Too long,Q-LVOL
890906	MINIVET S.	OR485010	HRS	62.8	63.9	4.3	1035	1103	3	P-FYELD,P-MSCOR
890907	VEE.S/3/KLTO/PATO19//MO/JUP	OR487462	HRS	66.8	66.8	4.7	1020	1020	4	P-FYELD,P-MSCOR,Q-LVOL,Q-S-BCRGR
890908	TAN.S./PEW.S	OR487255	HWS	66.0	67.1	4.8	1050	1118	2	P-FYELD,Q-MSCOR
890909	RL6040/YR 4	OR487380	HWS	64.5	65.0	4.3	1110	1141	3	Q-MSCOR
890910	LEN	ND	HRS	67.3	67.0	4.7	1130	1111	3	Q-MSCOR
890911	LEN/COTEAU SIB//ERA	ND000618	HRS	67.3	66.6	4.1	1085	1042	2	Q-MSCOR

LOAF VOLUME VS PROTEIN



COMMENTS: This nursery averaged 14% flour protein. The major deficiency of several selections in this nursery was poor to questionable flour yields and/or milling scores. Loaf volume and crumb grain were generally quite satisfactory for most selections. Loaf volume was equal to or exceeded that expected for their flour protein level for most selections. See plot of loaf volume vs flour protein and "Remarks".

NURSCO 36

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890912 OWENS			SWS	61.2	70.1	0.30	84.6	10.2	54.9	9.02
890913 TREASURE		C1017904	SWS	60.7	72.2	0.32	88.0	9.8	55.3	9.15
890914 PENAHAWA		P1468962	SWS	60.3	70.8	0.34	84.4	10.4	54.2	8.68
890915 WAKANZ		P1495916	SWS	61.4	72.4	0.34	87.3	10.1	53.8	9.27
890916 K79299-5 K78504/K74129-33//K7806645 NZ S		P1506352 WA007176	SWS	60.4	70.7	0.37	83.0	10.1	53.3	9.04
890917 WADUAL (K74182/POTAM 70)		WA007187	SWS	60.9	71.2	0.30	87.7	10.4	54.7	9.19
890918 K7400315/POTAM 70 S. 47		WA007496	SWS	59.2	72.2	0.36	85.2	10.2	52.8	8.89
890919 K79228-1 K74129-23/WA6395		WA007497	SWS	61.4	74.1	0.33	89.6	9.9	54.4	8.86
890920 K74129-19/ID000065		WA007669	SWS	57.7	72.4	0.37	86.0	10.0	53.0	8.56
890921 OWENS/ID000159		ID710018	SWS	61.8	72.0	0.30	89.1	10.0	54.7	9.31
890922 A75157S-A-259/ID000236		ID710035	SWS	61.0	71.4	0.33	86.9	9.7	55.9	8.94
890923 COR422-ANA/ID0231		ID000404	SWS	60.5	73.0	0.35	87.9	10.1	55.4	8.84
890924 ID0228/A73262S-11682-1		ID000405	SWS	60.2	71.3	0.34	86.4	9.9	54.3	9.11
890925 A73262S-11682/ID0150		ID000406	SWS	61.1	70.3	0.32	84.0	10.3	53.7	8.55
890926 ID0182/FIELDWIN		ID000407	SWS	63.3	72.5	0.31	87.9	10.0	54.0	8.89
890927 ID0232/A75120S-2214-1-1		ID000408	SWS	60.5	72.2	0.31	87.2	10.3	53.7	9.12
890928 TREASURE/ID0246		ID000409	SWS	61.1	72.4	0.32	88.5	10.1	54.6	9.45
890929 A81515S-A/STERLING		ID000410	SWS	61.2	72.5	0.33	87.5	10.2	52.8	8.95
890930 SAP.S/MON.S		OR487316	SWS	61.6	69.4	0.30	84.6	9.5	54.3	8.95
890931 UNK850001		OR487503	SWS	59.6	70.7	0.33	84.3	10.0	53.4	8.76
890932 EMU.S//TJ884/1543		OR487570	SWS	58.9	70.8	0.34	83.8	10.3	54.6	8.71

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 10% protein.

4/ Observed values corrected to 10% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSICO 36

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	COQC 4/	MTYPE	CAVOL	SCSOR	WTIN	NOSCOR	RMKS
890912	OWENS									
890913	TREASURE	CI017904	SWS	9.05	3M	1370	80.0	354	77	
890914	PENAWAWA	PI468962	SWS	9.13	4M	1360	83.0	343	71	
890915	WAKANZ	PI495916	SWS	8.72	2M	1280	74.0	351	75	
890916	K79299-5 K78504/K74129-33//K7806645 NZ S	PI506352	SWS	9.29	2M	1235	74.0	347	73	
		WA007176	SWS	9.05	2M	1295	74.0	356	74	Q-MSCOR
890917	WADUAL (K74182/POTAM 70)	WA007187	SWS	9.23	6M	1340	78.0	328	71	P-NOSCOR
890918	K7400315/POTAM 70 S. 47	WA007496	SWS	8.91	4M	1305	77.0	358	74	
890919	K79228-1 K74129-23/WA6395	WA007497	SWS	8.85	4M	1245	71.0	365	76	Q-COD1, P-SCSOR
890920	K74129-19/ID000065	WA007669	SWS	8.56	2M	1210	67.0	373	75	P-COD1, P-SCSOR
890921	OWENS/ID000159	ID710018	SWS	9.31	3M	1280	72.0	362	74	Q-SCSOR
890922	A75157S-A-259/ID000236	ID710035	SWS	8.90	4M	1310	75.0	347	73	Q-NOSCOR
890923	COR422-ANA/ID0231	ID000404	SWS	8.85	4M	1295	72.0	335	72	Q-COD1, Q-SCSOR, Q-NOSCOR
890924	ID0228/A73262S-11682-1	ID000405	SWS	9.10	2M	1290	72.0	344	74	Q-SCSOR
890925	A73262S-11682/ID0150	ID000406	SWS	8.58	3M	1255	72.0	344	76	Q-FYELD, P-COD1, Q-SCSOR
890926	ID0182/FIELDWIN	ID000407	SWS	8.89	2M	1200	61.0	349	80	VP-SCSOR
890927	ID0232/A75120S-2214-1-1	ID000408	SWS	9.16	3M	1320	75.0	344	75	
890928	TREASURE/ID0246	ID000409	SWS	9.46	4M	1300	73.0	336	71	P-NOSCOR
890929	A81515S-A/STERLING	ID000410	SWS	8.97	2M	1215	68.0	349	78	P-SCSOR
890930	SAP.S/MON.S	OR487316	SWS	8.89	3M	1240	68.0	338	72	Q-FYELD, P-SCSOR, Q-NOSCOR
890931	UNK850001	OR487503	SWS	8.76	4M	1215	65.0	320	74	P-COD1, VP-SCSOR
890932	EMU.S//TJB84/1543	OR487570	SWS	8.75	5M	1295	76.0	325	72	P-COD1, Q-NOSCOR

COMMENTS: This nursery averaged 10% flour protein. In general, milling properties of most selections were satisfactory. The major deficiencies of several selections were poor to questionable noodle and/or sponge cake scores. The cookie spread of most selections was satisfactory. See "Remarks".

NURSCO 37

PULLMAN, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
890933	FIELDER	CI017268	SWS	60.8	71.5	0.34	84.4	10.0	54.6	8.92
890934	DIRKWIN	CI017745	SWS	57.6	72.8	0.39	84.6	10.5	54.1	8.70
890935	WAVERLY	CI017911	SWS	60.0	71.9	0.38	82.6	11.1	54.4	8.50
890936	LANDMARK	FL850010	SWS	61.0	71.3	0.40	80.9	11.0	53.9	9.25
890937	LEXUS	FL880000	SWS	60.4	69.3	0.37	79.1	10.2	54.8	8.89
890938	FIRST LINE SEEDS #22	FL880022	SWS	61.7	71.3	0.37	81.4	10.7	53.8	9.05
890939	FIRST LINE SEEDS #23	FL880023	SWS	62.1	71.5	0.38	81.5	11.2	53.8	9.10
890940	FIRST LINE SEEDS #25	FL880025	SWS	62.0	69.4	0.39	78.6	10.7	55.0	9.23
890941	FIRST LINE SEEDS #46	FL880046	SWS	61.1	69.0	0.39	77.3	11.1	54.5	9.15
890942	COMBIRD S./2 STERLING	ID000312	SWS	62.3	72.3	0.36	84.4	10.3	55.2	8.70
890943	EDWALL	PI477919	SWS	59.5	69.0	0.31	80.8	10.4	55.1	9.02
890944	TREASURE	PI468962	SWS	61.0	72.5	0.34	85.5	10.2	55.7	8.95
890945	PENAHAWA	PI495916	SWS	59.6	71.0	0.41	78.7	10.3	54.6	8.98
890946	WAKANZ	PI506352	SWS	60.9	71.3	0.36	83.3	10.5	55.9	8.99
890947	WADUAL	WA007187	SWS	61.1	70.3	0.31	84.1	10.9	56.8	8.85
890948	K74129-19/ID000065	WA007669	SWS	57.9	71.6	0.37	82.5	10.5	54.7	8.52
890949	SPRITE	WPB68117	SWS	59.5	68.9	0.34	81.1	10.7	54.8	8.85

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

C.F. KONZAK

PULLMAN, WA

NURSCO 37

LABNUM	VARIETY	IDNO	CLASS	CODIC	MTYPE	CAVOL	SCSOR	WTIN	NOSCOR	RMKS
				4/						
890933	FIELDER	CI017268	SWS	8.81	2M	1285	75.0	348	79	P-TWT, P-COD1, VP-SCSOR, Q-NOSCOR
890934	DIRKWIN	CI017745	SWS	8.65	2M	1200	66.0	313	72	P-COD1, P-SCSOR, P-NOSCOR
890935	WAVERLY	CI017911	SWS	8.51	3M	1225	67.0	279	70	Q-MSCOR, P-SCSOR
890936	LANDMARK	FL850010	SWS	9.25	2M	1235	68.0	368	73	P-FYELD
890937	LEXUS	FL880000	SWS	8.80	4M	1315	78.0	322	73	
890938	FIRST LINE SEEDS #22	FL880022	SWS	9.02	2M	1265	69.0	346	72	Q-MSCOR, P-SCSOR, Q-NOSCOR
890939	FIRST LINE SEEDS #23	FL880023	SWS	9.12	2M	1255	71.0	346	72	Q-MSCOR, P-SCSOR, Q-NOSCOR
890940	FIRST LINE SEEDS #25	FL880025	SWS	9.19	2M	1280	73.0	344	73	P-FYELD
890941	FIRST LINE SEEDS #46	FL880046	SWS	9.16	2M	1255	71.0	356	74	P-FYELD, P-MSCOR, P-SCSOR
890942	COMBIRD S./2 STERLING	ID000312	SWS	8.62	3M	1310	75.0	341	77	P-COD1
890943	EDWALL	PI477919	SWS	8.96	2M	1320	76.0	345	81	P-FYELD
890944	TREASURE	PI468962	SWS	8.86	3M	1315	75.0	327	72	Q-NOSCOR
890945	PENAWAWA	PI495916	SWS	8.90	2M	1285	75.0	346	77	P-MSCOR
890946	WAKANZ	PI506352	SWS	8.93	3M	1260	72.0	358	74	P-SCSOR
890947	WADUAL	WA007187	SWS	8.84	4M	1275	73.0	345	74	
890948	K74129-19/ID000065	WA007669	SWS	8.47	2M	1150	59.0	359	70	P-TWT, Q-MSCOR, P-COD1, P-SCSOR, P-NOSCOR
890949	SPRITE	WP868117	SWS	8.82	2M	1220	70.0	345	77	P-FYELD, P-SCSOR

COMMENTS: This nursery averaged 11% flour protein. Remarks were placed on nearly all of the lines in this nursery since it was a commercial nursery. Comparisons were made among all of the lines and the deficiencies were noted. See "Remarks".

NURSCO 38

LIND, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
890950	GOLDEN 86	GP006074	HWS	62.4	68.2	0.35	80.8	13.4	65.6	3H
890951	KLASIC	NK080022	HWS	61.7	68.8	0.34	80.0	13.8	65.0	5H
890952	YECORA ROJO	CI017414	HRS	61.1	68.3	0.38	77.3	14.1	66.5	5H
890953	WAMPUM	CI017691	HRS	60.5	69.1	0.40	79.8	13.5	66.2	4H
890954	MCKAY	CI017903	HRS	59.8	70.0	0.37	82.3	13.7	67.0	6H
890955	CZAR	FL860001	HRS	60.7	62.2	0.36	71.4	13.3	65.2	2H
890956	FIRST LINE SEEDS #306	FL880306	HRS	60.6	59.0	0.36	64.2	13.1	64.7	1H
890957	NOMAD	GP005594	HRS	60.5	62.1	0.40	65.8	13.5	62.8	2H
890958	NORDIC	HS820175	HRS	62.3	67.8	0.38	77.0	13.3	67.0	3H
890959	BUTTE 86	ND000597	HRS	62.1	67.7	0.36	78.2	14.0	65.3	3H
890960	STOA	ND000000	HRS	59.8	66.5	0.38	76.1	15.0	70.6	5H
890961	COPPER	PI502644	HRS	61.3	68.5	0.35	80.7	13.4	68.7	5H
890962	BUTTE/SD 2770	SD002961	HRS	61.0	67.5	0.37	78.5	14.3	68.0	6H
890963	SPILLMAN	WA007075	HRS	59.1	70.3	0.42	79.6	14.0	66.7	4H
890964	K76130 K7205078/(CI14193, RED RIVER 68-1)	WA007326	HRS	59.4	66.6	0.39	75.9	13.9	67.4	5H
890965	NDM00004/NK000751 S82-62	WA007493	HRS	59.8	66.8	0.38	76.5	13.1	66.8	3H
890966	NDM00004/NK000751 S82-66	WA007494	HRS	59.2	66.7	0.39	75.4	13.1	66.9	3H
890967	UT881292/1D167	WA007667	HRS	58.4	64.5	0.38	72.3	13.6	68.5	6H
890968	K80296/NK761011	WA007668	HRS	59.1	67.3	0.40	75.3	13.4	67.0	2H
890969	906R	WP800906	HRS	60.6	65.3	0.39	73.4	14.4	66.9	3H
890970	WESTBRED 926	WP800926	HRS	61.7	70.1	0.42	78.8	14.9	67.5	3H
890971	WHEAT SPECIALTIES INC. 7070	WS107070	HRS	61.8	69.5	0.37	81.1	14.4	67.1	3H

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 14% protein.

4/ Observed values corrected to 14% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 38

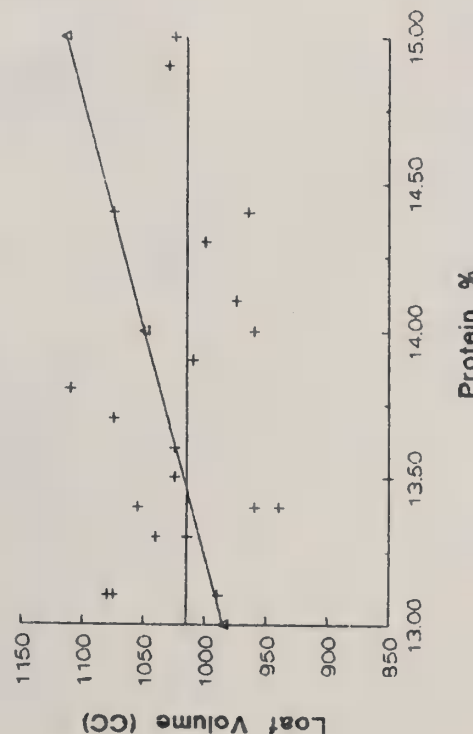
LIND, WA

C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
890950	GOLDEN 86	GP006074	HWS	64.2	64.8	3.0	940	977	4	P-LVOL, Q-S-BCRGR
890951	KLASIC	NK08022	HWS	64.0	64.2	4.1	1110	1122	4	Q-S-BCRGR
890952	YECORA ROJO	C1017414	HRS	66.8	66.7	4.1	975	969	2	P-LVOL
890953	WAMPUM	C1017691	HRS	64.9	65.4	5.0	1025	1056	2	
890954	MCKAY	C1017903	HRS	65.9	66.2	7.4	1075	1094	2	
890955	CZAR	FL860001	SWW	62.7	63.4	2.2	1015	1058	2	VP-FYELD, P-MTIME
890956	FIRST LINE SEEDS #306	FL880306	SWW	61.5	62.4	1.5	990	1046	4	VP-FYELD, VP-MTIME, Q-S-BCRGR
890957	NOMAD	GP005594	HRS	61.5	62.0	2.2	850	881	6	VP-FYELD, P-MTIME, P-LVOL, Q-BCRGR
890958	NORDIC	HS820175	HRS	65.5	66.2	3.1	1040	1083	2	P-Q-FYELD
890959	BUTTE 86	ND000597	HRS	64.5	64.5	3.0	960	960	3	P-Q-FYELD, P-LVOL
890960	STOA	ND000000	HRS	70.8	69.8	4.6	1025	963	3	P-FYELD, P-LVOL
890961	COPPER	PI502644	HRS	67.3	67.9	4.7	960	997	2	Q-LVOL
890962	BUTTE/SD 2770	SD002961	HRS	67.5	67.2	6.7	1000	981	2	Q-FYELD, P-LVOL
890963	SPILLMAN	WA007075	HRS	65.9	65.9	4.6	1050	1050	2	
890964	K76130 K7205078/(C114193, RED RIVER 68-1)	WA007326	HRS	66.5	66.6	5.7	1010	1016	3	P-FYELD, Q-LVOL
890965	NDM00004/NK000751 S82-62	WA007493	HRS	64.1	65.0	3.6	1075	1131	3	P-FYELD
890966	NDM00004/NK000751 S82-66	WA007494	HRS	64.2	65.1	3.5	1080	1136	2	P-FYELD
890967	UT881292/ID167	WA007667	HRS	67.3	67.7	6.3	1025	1050	2	P-FYELD
890968	K80296/NK761011	WA007668	HRS	64.6	65.2	2.3	1055	1092	4	P-FYELD, Q-BCRGR
890969	906R	WP800906	HRS	66.5	66.1	3.9	1075	1050	3	P-FYELD
890970	WESTBRED 926	WP800926	HRS	67.6	66.7	3.6	1030	974	4	Q-FASH, Q-MSCOR, P-LVOL, Q-BCRGR
890971	WHEAT SPECIALTIES INC. 7070	WS107070	HRS	66.7	66.3	4.2	965	940	4	P-LVOL, Q-BCRGR

LOAF VOLUME VS PROTEIN

COMMENTS: The milling properties of this nursery were not generally satisfactory for both the check varieties and selections. Comparisons of selections were made to Wampum and McKay for milling evaluations. Some checks and selections had loaf volumes lower than expected for their flour protein level. See "Remarks" for other deficiencies.



NURSCO 39

POMEROY, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
890972	NUGAINES	C1013968	SWW	64.8	70.5	0.29	92.1	7.5		53.8
890973	STEPHENS	C1017596	SWW	61.2	72.1	0.34	91.1	7.7		53.7
890974	MALCOLM	ORCW8113	SWW	62.8	72.0	0.33	91.5	7.3		52.3
890975	OVESON	OR007996	SWW	61.6	71.9	0.34	90.8	7.7		50.9
890976	HILL81	C1017954	SWW	62.0	73.1	0.35	91.7	7.6		51.3
890977	MADSEN	WA007163	SWW	62.4	73.8	0.33	93.9	8.6		51.2
890978	DAWS	C1017419	SWW	62.8	71.0	0.31	91.5	8.6		52.3
890979	DUSTY	PI486429	SWW	62.8	72.9	0.34	92.0	7.9		50.2
890980	LEWJAIN	C1017909	SWW	64.0	71.8	0.33	91.3	7.5		51.8
890981	LUKE/VH67375//VPM/MOS	WA007529	SWW	61.6	73.8	0.36	92.0	7.3		52.0
890982	HUNTSMAN/VH74521	WA007627	SWW	62.8	71.7	0.31	92.4	8.1		52.0
890983	MORO	C1013740	CLUB	60.4	74.0	0.36	92.1	6.7		50.7
890984	ELGIN	C1011755	CLUB	62.0	73.5	0.33	93.4	7.6		48.4
890985	CREW	C1017951	CLUB	60.4	72.6	0.36	90.5	7.7		49.2
890986	TRES	C1017917	CLUB	61.6	73.2	0.35	91.8	7.5		48.4
890987	HYAK	WA007166	CLUB	62.0	73.2	0.29	95.6	8.5		50.7
890988	PAHA//SEL72-330/DAWS	OR000855	SWW	62.8	71.7	0.34	90.5	8.1		52.2
890990	CORVALLIS SEL.	ORCW8632	SWW	60.4	72.0	0.33	91.6	9.5		51.3
890991	CITATION	PB180005	SWW	62.0	72.1	0.34	91.1	8.8		51.5
890993	CORVALLIS SEL	OR830801	SWW	61.2	71.3	0.33	90.7	8.6		51.7
890994	FW73830-002/3/MLD/2/RBS/	ORF20519	SWW	62.4	72.4	0.31	93.3	8.3		50.0
890995	YMH/MCD/2/TSPelta/3/SU92	ORF75336	SWW	62.0	72.0	0.34	90.9	7.4		51.5
890996	DAWS/SM4//MDM//SM11	ORFW0301	SWW	61.6	73.2	0.31	94.3	8.2		51.8
890999	CORVALLIS SEL.	ORCW8635	SWW	62.4	70.5	0.28	92.9	7.9		54.0
891002	LUKE/BR704434	WA007431	SWW	64.4	72.1	0.32	92.4	7.3		52.4
891003	VPM/421/VH66354/WA5827/	WA007621	SWW	64.0	73.6	0.35	92.3	7.6		51.9
891008	VD084042,WA6581/BARBEE/A	WA007661	SWW	65.2	71.6	0.34	90.4	7.2		51.8
891009	VH086206,LUKE/DAWS//HILL	WA007662	SWW	64.4	72.4	0.30	93.9	7.8		51.2
891010	VH085208,MARKSMAN/DAWS	WA007663	SWW	64.0	73.8	0.33	93.9	6.5		53.4
891011	VH087253,LEWJAIN/WA00681	WA007664	SWW	65.6	71.4	0.31	92.0	7.0		53.3

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 7% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 7% protein.

SWW QUALITY

NURSCO 39

POMEROY, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	MTYPE	RMKS
890972	NUGAINES	CI013968	SWW	8.86	8.92	3L	
890973	STEPHENS	CI017596	SWW	9.54	9.61	2L	
890974	MALCOLM	ORCW8113	SWW	9.10	9.13	3L	
890975	OVESON	OR007996	SWW	9.75	9.83	4L	
890976	HILL81	CI017954	SWW	8.96	9.03	2L	
890977	MADSEN	WA007163	SWW	9.11	9.29	3L	
890978	DAWS	CI017419	SWW	9.02	9.20	3L	
890979	DUSTY	PI486429	SWW	9.55	9.65	3L	
890980	LEWJAIN	CI017909	SWW	9.54	9.59	3L	
890981	LUKE/VH67375//VPM/MOS	WA007529	SWW	9.25	9.28	3L	
890982	HUNTSMAN/VH74521	WA007627	SWW	9.51	9.63	2L	Very good COD1
890983	MORO	CI013740	CLUB	10.00	9.98	2L	
890984	ELGIN	CI011755	CLUB	9.37	9.42	1L	
890985	CREW	CI017951	CLUB	9.34	9.39	2L	
890986	TRES	CI017917	CLUB	9.69	9.72	1L	
890987	HYAK	WA007166	CLUB	8.92	9.03	3L	
890988	PAHA//SEL72-330/DAWS	OR000855	SWW	9.27	9.40	2L	
890990	CORVALLIS SEL.	ORCW8632	SWW	9.27	9.55	2M	
890991	CITATION	PB180005	SWW	9.14	9.34	3L	
890993	CORVALLIS SEL	OR830801	SWW	9.39	9.56	3L	Q-FYELD
890994	FW73830-002/3/MLD/2/RBS/	ORF20519	SWW	9.84	9.98	2L	Excellent COD1
890995	YMH/MCD/2/TSPelta/3/SU92	ORF75336	SWW	8.91	8.96	2L	Q-COD1
890996	DAWS/SM4//MDM//SM11	ORFW0301	SWW	9.11	9.24	2L	
890999	CORVALLIS SEL.	ORCW8635	SWW	8.16	8.26	4L	Q-FYELD, Low ASH, VP-COD1
891002	LUKE/BR704434	WA007431	SWW	9.37	9.41	6L	
891003	VPM/421/VH66354//WA5827/	WA007621	SWW	9.04	9.10	1L	
891008	VD084042, WA6581/BARBEE/A	WA007661	SWW	9.39	9.41	3L	
891009	VH086206, LUKE/DAWS//HILL	WA007662	SWW	8.85	8.94	3L	Q-COD1
891010	VH085208, MARKSMAN/DAWS	WA007663	SWW	9.51	9.46	2L	
891011	VH087253, LEWJAIN/WA00681	WA007664	SWW	9.29	9.29	3L	

NURSCO 39

POMEROY, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH	MSCOR	FPROT	FHRD	MABSC
891012 REA		5/ WA007665	SWW	62.8	74.9	0.32	95.8	7.7		52.6
891014 WA6814/TRES		VA087002	SWW	62.8	75.1	0.35	94.2	7.5		48.9
891015 WA6814/OR794		6/ VB087008	SWW	64.8	74.0	0.36	92.2	8.9		51.2
891018 WA6814/WA6581		VD087011	SWW	64.0	72.7	0.32	93.0	7.2		51.1
891019 DAWS/LUKE//VH68425		VH084239	SWW	64.8	71.1	0.35	89.1	8.3		51.3
891022 WA6580/HILL81										
891023 VJ77296//CB73-216/WA6146		VH086032	SWW	62.4	73.0	0.35	91.5	7.2		51.6
891026 VH79121, SPN/CER/VH80468		5/ VH086048	SWW	64.0	74.7	0.35	93.8	8.3		50.6
891039 WA6910/WA6912		VH086248	SWW	64.8	72.1	0.34	91.0	7.0		53.6
891040 WVP118		VH087401	SWW	64.0	73.0	0.37	90.3	6.8		51.5
		VH087512	SWW	64.4	70.7	0.28	93.6	7.1		52.3
891043 TRES/OR7142										
891045 HYSLOP AL/HILL81		6/ VA087001	SWW	64.0	74.1	0.36	92.2	7.4		48.7
891047 LEWJAIN/WA6910		VH087235	SWW	64.0	73.1	0.33	92.9	7.4		54.5
891049 ID745318/3/MALCOLM		VH087261	SWW	62.4	73.6	0.34	92.9	6.4		53.2
891050 TRES/JACMAR		VH087384	SWW	63.2	71.1	0.34	89.7	7.9		52.4
		VA088003	CLUB	61.6	70.6	0.38	86.5	8.3		50.3
891053 LEWJAIN/WA6813										
891056 WA6470/SEL2142//DUSTY		6/ VH088053	SWW	66.0	72.0	0.29	94.0	7.5		52.8
891060 DUSTY/3/WA007050		6/ VH088082	SWW	65.6	73.7	0.32	94.3	7.4		53.0
891062 DUSTY/3/WA007050		6/ VB088162	CLUB	65.6	73.0	0.33	93.3	7.0		52.0
891063 NORCO/3/VH72297		VD088171	SWW	62.8	74.6	0.33	94.8	6.4		52.5
		VD088175	SWW	64.0	72.4	0.36	90.1	6.4		51.4
891067 OR007794/VH079085										
891069 LUKE/BR704434//VH080368		VH088262	SWW	64.0	71.1	0.33	90.3	6.5		54.3
891070 VM801034/DUSTY		VH088285	SWW	65.6	71.3	0.31	91.9	7.5		51.9
891071 VPM/CAPPELLE7/WA006915		VH088323	SWW	64.8	71.7	0.33	91.1	6.3		55.1
891074 DUSTY/3/OVESON		6/ VH088337	SWW	66.0	74.3	0.31	95.7	7.7		53.3
		6/ VH088358	SWW	66.0	72.0	0.30	94.0	6.6		52.8
891075 DUSTY/3/VH082257										
891076 SRG/LUKE/BR77136/WA6910		VH088385	SWW	66.8	72.1	0.36	89.8	6.6		54.9
891077 SRG/LUKE/BR77136/DUSTY		VH088393	SWW	62.4	73.3	0.35	91.9	6.7		53.6
891079 CLUB/SRG, BR77294/DAWS		VH088394	SWW	62.8	72.7	0.35	91.2	7.2		52.9
891083 LUKE/BR704434/LJN/WA7047		VH088418	SWW	64.4	72.2	0.34	91.6	6.6		54.0
		VH088448	SWW	66.8	70.3	0.32	89.9	6.2		54.6

NURSCO 39

POMEROY, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC	MTYPE	RMKS
891012	REA	WA007665	SWW	9.45	9.53	2L	Excellent FYELD and COD1
891014	WA6814/TRES	WA087002	SWW	9.20	9.26	1L	Excellent FYELD
891015	WA6814/OR794	VB087008	SWW	9.27	9.48	2M	
891018	WA6814/WA6581	VD087011	SWW	9.01	9.03	2L	Q-COD1
891019	DAWS/LUKE//VH68425	VH084239	SWW	9.20	9.34	3L	Q-FYELD
891022	WA6580/HILL81	VH086032	SWW	8.85	8.87	3L	P-COD1
891023	VJ77296//CB73-216/WA6146	VH086048	SWW	9.48	9.62	2L	
891026	VH79121,SPN/CER/VH80468	VH086248	SWW	8.77	8.77	2L	P-COD1
891039	WA6910/WA6912	VH087401	SWW	9.49	9.47	3L	
891040	WVP118	VH087512	SWW	8.91	8.92	3L	Q-FYELD, Low-ASH, P-COD1
891043	TRES/OR7142	VA087001	SWW	9.54	9.58	1L	
891045	HYSLOP AL/HILL81	VH087235	SWW	8.99	9.03	3L	Q-COD1
891047	LEWJAIN/WA6910	VH087261	SWW	8.84	8.77	3L	P-COD1
891049	ID745318/3/MALCOLM	VH087384	SWW	9.20	9.30	3L	Q-FYELD
891050	TRES/JACMAR	VA088003	CLUB	9.30	9.39	2M	P-FYELD, P-MSCOR
891053	LEWJAIN/WA6813	VH088053	SWW	9.65	9.70	3L	Excellent COD1
891056	WA6470/SEL2142//DUSTY	VH088082	SWW	9.35	9.39	3L	
891060	DUSTY/3/WA007050	VB088162	CLUB	9.55	9.55	3L	
891062	DUSTY/3/WA007050	VD088171	SWW	9.31	9.25	4L	Very good FYELD
891063	NORCO/3/VH72297	VD088175	SWW	9.64	9.57	3L	
891067	OR007794/VH079085	VH088262	SWW	9.27	9.22	1L	Q-FYELD
891069	LUKE/BR704434//VH080368	VH088285	SWW	9.26	9.32	3L	Q-FYELD
891070	VM801034/DUSTY	VH088323	SWW	9.56	9.49	2L	Q-FYELD
891071	VPM/CAPPELLE7/WA006915	VH088337	SWW	9.33	9.40	3L	Very good FYELD
891074	DUSTY/3/OVESON	VH088358	SWW	10.09	10.04	8L	Excellent COD1
891075	DUSTY/3/VH082257	VH088385	SWW	9.45	9.41	3L	Q-MSCOR
891076	SRG/LUKE/BR77136/WA6910	VH088393	SWW	9.35	9.32	4L	
891077	SRG/LUKE/BR77136/DUSTY	VH088394	SWW	9.27	9.30	3L	
891079	CLUB/SG, BR77294/DAWS	VH088418	SWW	9.18	9.13	3L	
891083	LUKE/BR704434/LJN/WA7047	VH088448	SWW	9.58	9.49	3L	P-FYELD, Q-MSCOR

NURSCO 39

SWW QUALITY

POMEROY, WA

C.J. PETERSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891085	VH166438/DUSTY	VH088491	SWW	62.8	74.2	0.33	94.3	6.7		53.3
891089	DUSTY/3/VB079342	6/VB088568	SWW	66.0	73.1	0.33	93.0	6.7		54.2

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	MTYPE	RMKS
891085	VH166438/DUSTY	VH088491	SWW	9.19	9.15	2L	Very good FYELD
891089	DUSTY/3/VB079342	VB088568	SWW	9.59	9.55	3L	

COMMENTS: This nursery averaged 7% flour protein content. The SWW selections were compared to the SWW checks and the club selections were compared to the club checks. In general, for most selections, milling properties were very good. A few selections showed poor to questionable flour yield. Cookie spread was generally excellent for most selections. A few selections with excellent milling properties and/or cookie spread were footnoted. See "Remarks".

NURSCO 40

WALLA WALLA, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	FHRD	MABSC
						1/		1/		3/
891092 TYEE		1	CLUB	60.6	73.4	0.35	88.1	7.8	30	51.4
891093 TRES		2	CLUB	62.1	72.6	0.39	85.1	7.1	34	50.7
891094 PAHA		3	CLUB	62.7	74.8	0.39	87.6	8.1	28	50.8
891095 CREW		4	CLUB	62.6	73.3	0.39	85.3	8.0	27	50.4
891096 HYAK		5	CLUB	62.5	73.6	0.36	87.4	8.6	28	52.3
891097 WA7526		6	CLUB	62.6	73.6	0.38	86.6	8.1	31	51.6
891098 WA7527		7	CLUB	62.5	73.8	0.38	86.6	7.6	32	51.5
891099 WA7217		8	CLUB	63.6	73.7	0.37	87.0	8.7	37	51.1
891100 WA7437		9	CLUB	61.9	71.8	0.36	84.6	7.4	29	52.2
891101 WA7622		10	CLUB	61.0	73.4	0.39	85.7	7.3	33	51.9
891102 WA7665		11	CLUB	60.5	75.1	0.39	88.3	7.5	18	52.0
891103 WA7621		12	CLUB	62.6	71.7	0.41	82.1	7.6	25	52.1
891104 .		13	CLUB	63.0	70.0	0.39	79.8	7.5	20	52.4
891105 .		14	CLUB	62.6	64.6	0.37	72.5	7.3	27	53.8
891106 .		15	CLUB	62.2	71.1	0.38	82.8	7.4	29	52.7
891107 .		6/ 31	CLUB	61.8	73.4	0.36	86.9	7.6	17	51.1
891108 .		32	CLUB	64.0	72.7	0.38	83.9	8.2	36	50.9
891109 WA7673		33	CLUB	61.9	73.6	0.35	87.8	8.0	33	52.4
891110 .		34	CLUB	63.0	73.7	0.35	88.3	8.6	28	50.7
891111 .		35	CLUB	63.0	74.0	0.29	91.7	8.1	30	51.1
891112 .		38	CLUB	63.2	74.1	0.32	90.1	8.1	34	51.2
891113 .		39	CLUB	62.2	73.6	0.36	88.0	7.3	31	51.0
891114 .		40	CLUB	63.5	73.9	0.34	87.6	8.3	25	50.4
891115 .		6/ 41	CLUB	61.9	73.5	0.34	88.3	7.1	28	51.3
891116 .		42	CLUB	61.9	72.7	0.33	86.9	8.0	28	52.6
891117 .		43	CLUB	63.3	71.4	0.34	84.0	7.9	22	51.7
891118 .		44	CLUB	59.1	72.5	0.34	85.5	8.0	19	50.9
891119 .		45	CLUB	63.5	72.4	0.32	88.6	8.0	32	52.7
891120 .		46	CLUB	61.0	73.3	0.33	88.3	7.7	32	53.4
891121 .		47	CLUB	61.0	73.9	0.34	89.5	7.1	29	53.5

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 8% protein.

4/ Observed values corrected to 8% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 40

WALLA WALLA, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	MTYPE	CAVOL	SCSOR	RMKS
891092	TYEE	1	CLUB	9.24	9.22	2L	1285	75.0	
891093	TRES	2	CLUB	8.74	8.67	1L	1260	74.0	
891094	PAHA	3	CLUB	8.81	8.82	2L	1335	79.0	
891095	CREW	4	CLUB	8.59	8.59	1L	1250	74.0	
891096	HYAK	5	CLUB	8.56	8.61	4L	1170	65.0	
891097	WA7526	6	CLUB	8.64	8.64	2L	1305	79.0	
891098	WA7527	7	CLUB	8.79	8.76	2L	1275	75.0	
891099	WA7217	8	CLUB	8.69	8.74	2M	1250	73.0	Q-SCSOR
891100	WA7437	9	CLUB	8.89	8.84	3L	1280	75.0	P-FYELD
891101	WA7622	10	CLUB	8.55	8.50	2L	1235	71.0	P-COD1, P-SCSOR
891102	WA7665	11	CLUB	9.00	8.96	3L	1250	72.0	Q-SCSOR
891103	WA7621	12	CLUB	8.50	8.47	2L	1220	71.0	P-FYELD, P-COD1, P-SCSOR
891104	.	13	CLUB	8.46	8.43	1L	1200	67.0	P-FYELD, P-COD1, P-SCSOR
891105	.	14	CLUB	8.26	8.21	3L	1260	71.0	VP-FYELD, P-COD1, P-SCSOR
891106	.	15	CLUB	8.48	8.43	2L	1225	69.0	P-FYELD, P-COD1, P-SCSOR
891107	.	31	CLUB	9.06	9.03	2L	1300	76.0	
891108	.	32	CLUB	9.04	9.05	2L	1260	74.0	Q-FYELD, Q-MSCOR
891109	WA7673	33	CLUB	8.51	8.51	2L	1250	70.0	P-COD1, P-SCSOR
891110	.	34	CLUB	8.69	8.73	1L	1220	67.0	P-SCSOR
891111	.	35	CLUB	8.54	8.54	1L	1210	70.0	Q-COD1, P-SCSOR
891112	.	38	CLUB	8.44	8.44	2L	1320	78.0	P-COD1
891113	.	39	CLUB	8.64	8.59	2L	1250	72.0	Q-SCSOR
891114	.	40	CLUB	8.56	8.58	1L	1225	67.0	Q-COD1, P-SCSOR
891115	.	41	CLUB	9.15	9.09	1L	1305	76.0	
891116	.	42	CLUB	8.25	8.25	3L	1215	69.0	Q-FYELD, P-COD1, P-SCSOR
891117	.	43	CLUB	8.61	8.61	2L	1305	77.0	P-FYELD, Q-COD1
891118	.	44	CLUB	8.66	8.66	2L	1275	72.0	Q-FYELD, Q-SCSOR
891119	.	45	CLUB	8.65	8.65	3L	1275	73.0	Q-FYELD, Q-SCSOR
891120	.	46	CLUB	8.69	8.67	3L	1185	66.0	P-CAVOL, P-SCSOR
891121	.	47	CLUB	8.95	8.89	5L	1280	74.0	

COMMENTS: This nursery averaged 8% flour protein content. Milling properties for most selections were generally satisfactory. Cookie spread ranged from 9.22 cm (Tyee) to 8.21 cm (IDNO 14). Two check varieties (Tyee and Paha) had larger cookie diameters than the other three checks. Most selections had cookie diameters near the three checks which had the smaller cookie diameters. Several selections had questionable to poor sponge cake scores. See "Remarks". Two selections were footnoted as having promising overall characteristics.

NURSCO 42

ONTARIO, OR

M.F. KOLDING

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	COOI
891129 OR8113			SWW	62.3	71.6	0.42	85.3	8.9	53.4	8.91
891130 FW82169		6/318	SWW	61.1	72.7	0.40	88.0	9.5	53.9	9.08
891131 FW83115		5/198	SWW	62.2	72.5	0.36	90.2	8.9	53.4	9.27
891132 FW205			SWW	59.5	71.0	0.40	85.8	10.2	53.1	9.19
891133 FW83115		6/D5068	SWW	62.1	72.8	0.38	89.4	9.6	55.2	9.02
891134 DUSTY			SWW	60.6	70.0	0.42	83.4	8.8	55.2	8.85
891135 FW81454		6/301	SWW	62.6	72.2	0.38	88.7	8.9	53.5	9.50
891136 FW83117		6/D5039	SWW	62.7	72.2	0.36	89.9	9.1	54.9	9.09
891137 FW771697G19			SWW	62.8	71.5	0.38	87.8	9.8	53.8	9.08
891138 FW81463		307	SWW	61.5	72.0	0.40	87.2	8.5	52.8	9.31
891139 FW82178		B5018	SWW	61.0	71.7	0.40	86.9	9.5	53.7	9.04
891140 FW82202		324	SWW	63.6	68.4	0.37	84.5	8.9	54.5	9.04

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 42

ONTARIO, OR

M.F. KOLDING

LABNUM	VARIETY	IDNO	CLASS	COBIC 4/	MTYPE	RMKS
891129	OR8113	.	SWW	8.90	2M	
891130	FW82169	318	SWW	9.13	2M	
891131	FW83115	.	SWW	9.26	2M	
891132	FW205	198	SWW	9.32	2M	Q-TWT
891133	FW83115	D5068	SWW	9.09	2M	
891134	DUSTY	.	SWW	8.83	2M	
891135	FW81454	301	SWW	9.49	2M	
891136	FW83117	D5039	SWW	9.10	2M	
891137	FW771697G19	.	SWW	9.16	2M	
891138	FW81463	307	SWW	9.26	2L	
891139	FW82178	B5018	SWW	9.09	2M	
891140	FW82202	324	SWW	9.03	2M	P-FYELD

COMMENTS: Milling properties of the selections in this nursery (with the exception of Dusty and ID No. 324) were quite satisfactory. Cookie diameters of all selections exceeded that of Dusty. The more outstanding selections are footnoted. See "Remarks" for deficiencies.

MURSCO 43

BOARDMAN, OR

M.F. KOLDING

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	MABSC	COOI
						<u>1/</u>		<u>1/</u>	<u>3/</u>	
891141 FT8046			TRIT	51.3	64.6	0.48	72.9	10.1	51.0	8.46
891142 FT87650		M7166	TRIT	56.2	65.8	0.45	76.2	9.3	53.0	8.35
891143 FT87658		P8002	TRIT	57.3	69.7	0.44	81.7	9.6	53.2	8.48
891144 FT87715		P8003	TRIT	58.3	65.5	0.40	78.9	9.9	51.2	8.54
891145 FT87773		.	TRIT	57.1	63.1	0.47	71.3	9.7	54.8	8.02

LABNUM	VARIETY	IDNO	CLASS	COOIC	MTYPE	RMKS
				<u>4/</u>		
891141 FT8046			TRIT	8.47	1M	
891142 FT87650		M7166	TRIT	8.27	1M	
891143 FT87658		P8002	TRIT	8.43	2M	
891144 FT87715		P8003	TRIT	8.53	1M	
891145 FT87773		.	TRIT	7.99	2M	

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 10% protein.

4/ Observed values corrected to 10% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

COMMENTS: This nursery contains five triticale samples which were analyzed for pastry performance as determined by cookie diameter. It is not possible to evaluate the samples for overall quality due to the absence of known check varieties. Relative quality can be derived through comparing the samples.

NURSCO 44

CORVALLIS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
891146 OR880003		89XWPTY2	HW	62.4	72.8	0.32	91.7	9.8	60.1	4M
891147 OR880427		89XWPTY118	HW	60.0	72.8	0.41	87.1	8.2	55.8	3M
891148 OR880816		89XWPTY205	HW	61.2	69.9	0.37	86.2	9.9	58.7	3M
891149 OR881191		89XWPTY212	HW	60.8	72.9	0.35	90.4	9.9	59.2	3M
891150 OR889078		89XWPTY235	HW	61.6	70.4	0.33	88.8	9.9	56.4	2M
891151 OR889085		89XWPTY241	HW	62.0	71.8	0.32	90.8	10.1	58.2	4M
891152 OR889312		89XWPTY272	SW	60.8	75.0	0.33	95.4	9.9	52.1	2M
891153 OR889313		89XWPTY273	SW	59.6	72.7	0.34	91.8	9.4	52.7	2M
891154 OR889314		89XWPTY274	HW	60.4	72.0	0.31	91.5	9.6	56.7	1M

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 10% protein.

4/ Observed values corrected to 10% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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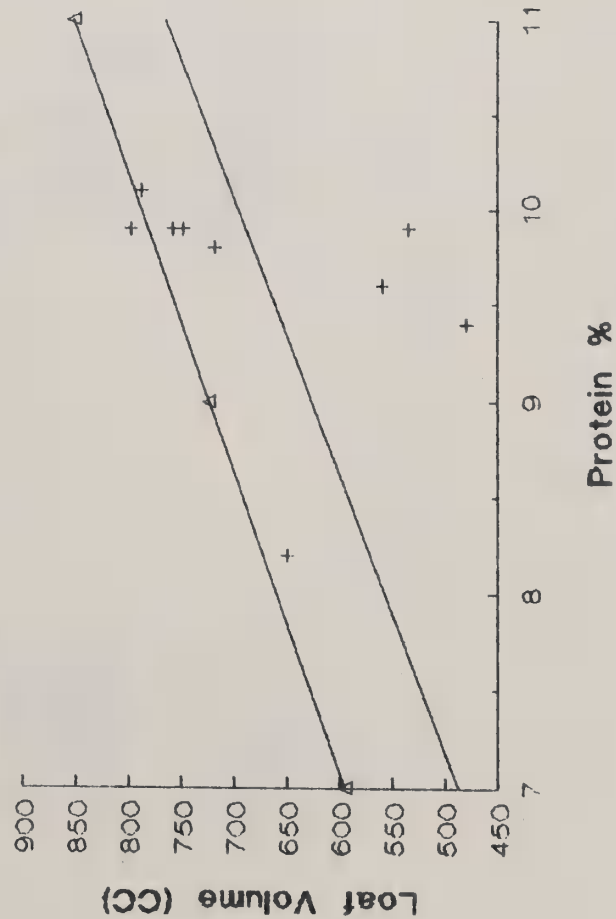
CORVALLIS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
891146	OR880003	89XWPTYT2	HWY	59.1	59.3	2.4	720	732	8	Q-MTIME, P-LVOL, P-BCRGR
891147	OR880427	89XWPTYT118	HWY	53.2	55.0	2.5	650	762	9	Q-MSCOR, Q-MTIME, Q-LVOL, P-BCRGR
891148	OR880816	89XWPTYT205	HWY	57.8	57.9	2.3	800	806	4	P-FYELD, Q-MSCOR, Q-MTIME, Q-BCRGR
891149	OR881191	89XWPTYT212	HWY	58.3	58.4	2.5	760	766	6	Q-MTIME Q-LVOL, Q-BCRGR
891150	OR889078	89XWPTYT235	HWY	55.5	55.6	1.9	750	756	8	Q-FYELD, P-MTIME, Q-LVOL, P-BCRGR
891151	OR889085	89XWPTYT241	HWY	57.5	57.4	3.0	790	784	4	Q-S-BCRGR
891152	OR889312	89XWPTYT272	SWW	51.2	51.3	1.3	535	541	9	P-MTIME, P-LVOL, P-BCRGR
891153	OR889313	89XWPTYT273	SWW	51.3	51.9	1.5	480	516	9	P-MTIME, P-LVOL, P-BCRGR
891154	OR889314	89XWPTYT274	HWY	55.5	55.9	1.2	560	585	9	P-MTIME, P-LVOL, P-BCRGR

COMMENTS: This nursery averaged 10% flour protein content. Milling quality of the selections in general were quite satisfactory. However, no check varieties were included to make comparisons to. Mix times of several HWY selections were questionable. Loaf volume of most selections were lower than expected for their flour protein level. See loaf volume vs. protein plot and "Remarks".

LOAF VOLUME VS PROTEIN



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CORVALLIS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	COOI
891155	OR870287	89PURHR5	HW	64.4	74.2	0.30	94.2	9.2	55.7	8.62
891156	OR870434	89PURHR9	SW	62.4	71.1	0.31	91.6	9.1	53.7	9.20
891157	OR870461	89PURHR10	HW	63.6	72.1	0.30	92.0	8.2	54.1	8.86
891158	OR870499	89PURHR11	SW	64.0	73.1	0.34	92.3	7.9	54.9	9.24
891159	OR870502	89PURHR12	SW	64.0	69.4	0.37	85.6	8.6	53.8	9.25
891160	OR870534	89PURHR13	SW	62.0	68.7	0.36	86.0	7.8	53.8	9.37
891161	OR870538	89PURHR14	SW	62.4	70.7	0.32	90.5	9.2	52.8	8.85
891162	OR870886	89PURHR19	HW	61.6	70.1	0.32	88.9	7.1	55.9	8.90
891163	OR871123	89PURHR23	HW	64.0	70.6	0.32	89.4	7.1	59.9	8.44
891164	OR871126	89PURHR24	HW	62.4	68.4	0.28	89.2	7.1	55.9	8.95
891165	OR860389	89PURHR28	SW	62.4	70.5	0.33	89.5	8.2	56.3	9.56
891166	OR860705	89PURHR30	HW	63.2	67.8	0.31	87.1	7.7	57.8	8.84
891167	OR860707	89PURHR31	SW	62.8	68.4	0.35	85.7	7.7	55.4	8.94
891168	OR860724	89PURHR32	SW	63.2	69.8	0.33	88.7	8.1	58.3	9.44
891169	OR860726	89PURHR33	SW	64.0	69.9	0.34	88.2	9.2	56.8	9.58
891170	OR860783	89PURHR35	SW	62.8	71.1	0.34	89.7	7.7	55.8	9.58
891171	OR860852	89PURHR36	SW	64.8	67.8	0.33	86.7	9.4	58.2	8.75
891172	OR861399	89PURHR39	SW	61.8	71.2	0.39	86.7	8.4	57.9	9.35
891173	OR880076	6/ 89XWPTY12	SW	62.4	72.8	0.32	93.7	8.0	54.6	9.81
891174	OR880082	89XWPTY13	SW	61.6	71.1	0.34	90.3	8.1	54.5	9.05
891175	OR880097	89XWPTY14	SW	62.0	72.1	0.38	88.5	8.3	54.1	9.54
891176	OR880101	89XWPTY16	SW	62.0	68.8	0.37	84.9	7.9	52.5	9.26
891177	OR880102	89XWPTY17	SW	62.4	69.8	0.36	87.4	8.2	53.4	9.34
891178	OR880105	89XWPTY18	SW	62.4	72.0	0.40	87.0	8.9	53.7	9.37
891179	OR880107	6/ 89XWPTY19	SW	64.0	73.0	0.37	90.2	9.1	53.4	9.24
891180	OR880110	89XWPTY21	SW	62.0	71.3	0.34	89.9	8.6	54.4	9.49
891181	OR880115	6/ 89XWPTY23	SW	61.6	73.0	0.34	92.1	9.0	53.4	9.39
891182	OR880119	89XWPTY24	SW	60.8	73.9	0.39	90.0	8.3	54.4	9.41
891183	OR880130	5/ 89XWPTY26	SW	62.0	75.0	0.35	94.0	8.5	53.0	9.48
891184	OR880136	89XWPTY27	HW	63.2	71.1	0.34	88.9	8.2	54.7	9.09

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 8% protein.

4/ Observed values corrected to 8% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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CORVALLIS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	RMKS
891155 OR870287		89PURHR5	HW	8.72	3M	P-COD1
891156 OR870434		89PURHR9	SW	9.32	4M	
891157 OR870461		89PURHR10	HW	8.88	2M	P-COD1
891158 OR870499		89PURHR11	SW	9.23	2L	
891159 OR870502		89PURHR12	SW	9.32	1L	P-FYELD
891160 OR870534						
891161 OR870538		89PURHR13	SW	9.35	2M	P-FYELD
891162 OR870886		89PURHR14	SW	8.98	1M	P-COD1
891163 OR871123		89PURHR19	HW	8.83	6M	Q-FYELD, P-COD1
891164 OR871126		89PURHR23	HW	8.37	6L	Q-FYELD, P-COD1
		89PURHR24	HW	8.88	4L	P-FYELD, P-COD1
891165 OR860389						
891166 OR860705		89PURHR28	SW	9.58	6M	Q-FYELD
891167 OR860707		89PURHR30	HW	8.81	7M	P-FYELD, P-COD1
891168 OR860724		89PURHR31	SW	8.90	5L	P-FYELD, P-COD1
891169 OR860726		89PURHR32	SW	9.45	3L	Q-FYELD
		89PURHR33	SW	9.71	3M	Q-FYELD
891170 OR860783						
891171 OR860852		89PURHR35	SW	9.54	4L	
891172 OR861399		89PURHR36	SW	8.90	4M	P-FYELD, P-COD1
891173 OR880076		89PURHR39	SW	9.39	4L	P-FASH, Q-MSCOR
891174 OR880082		89XWPTY12	SW	9.81	2L	
		89XWPTY13	SW	9.06	2M	P-COD1
891175 OR880097						
891176 OR880101		89XWPTY14	SW	9.57	2M	P-FASH
891177 OR880102		89XWPTY16	SW	9.25	2M	P-FYELD, P-MSCOR
891178 OR880105		89XWPTY17	SW	9.36	2M	Q-FYELD, Q-MSCOR
891179 OR880107		89XWPTY18	SW	9.47	2M	P-FASH, Q-MSCOR
		89XWPTY19	SW	9.36	2M	
891180 OR880110						
891181 OR880115		89XWPTY21	SW	9.55	3M	
891182 OR880119		89XWPTY23	SW	9.50	2M	
891183 OR880130		89XWPTY24	SW	9.45	3L	
		89XWPTY26	SW	9.53	2M	
891184 OR880136		89XWPTY27	HW	9.10	3M	P-COD1

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CORVALLIS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
891185 OR880143		89XWPYT28	SNW	61.6	69.1	0.36	85.8	9.1	54.5	8.96
891186 OR880145		89XWPYT30	SNW	62.8	70.5	0.35	88.3	8.8	53.5	9.52
891187 OR880162		89XWPYT32	SNW	59.6	69.4	0.38	85.0	8.7	53.9	9.35
891188 OR880236		89XWPYT51	SNW	64.4	68.5	0.34	86.9	8.8	53.9	9.16
891189 OR880237		89XWPYT52	SNW	64.0	69.4	0.33	88.8	9.1	54.4	9.27
891190 OR880239		89XWPYT54	SNW	64.8	68.2	0.33	87.2	9.1	53.5	9.48
891191 OR880346		6/ 89XWPYT73	SNW	62.0	72.7	0.33	92.9	8.9	54.8	9.34
891192 OR880347		6/ 89XWPYT74	SNW	63.2	73.2	0.35	92.3	8.2	53.4	9.64
891193 OR880352		89XWPYT78	SNW	61.2	69.9	0.39	85.6	8.0	53.7	9.44
891194 OR880353		89XWPYT79	SNW	60.4	68.8	0.37	84.9	7.8	54.7	8.92
891195 OR880356		89XWPYT82	SNW	61.6	69.9	0.31	90.1	8.1	54.7	9.36
891196 OR880373		89XWPYT93	SNW	62.0	71.6	0.36	89.1	8.2	54.2	9.91
891197 OR880374		89XWPYT94	SNW	62.0	70.0	0.38	86.3	7.8	54.9	9.50
891198 OR880375		89XWPYT95	SNW	60.8	71.9	0.40	86.9	7.8	54.9	9.64
891199 OR880379		89XWPYT97	SNW	60.0	70.3	0.35	88.6	8.6	54.2	9.41
891200 OR880389		89XWPYT104	SNW	56.8	65.7	0.39	80.1	7.9	54.3	8.99
891201 OR880399		6/ 89XWPYT110	SNW	62.4	73.5	0.33	93.4	7.8	53.7	9.50
891202 OR880401		89XWPYT111	SNW	57.2	70.7	0.36	87.9	7.9	53.7	9.31
891203 OR880404		89XWPYT113	SNW	58.8	70.7	0.39	86.0	8.7	52.9	9.26
891204 OR880407		6/ 89XWPYT114	SNW	63.6	74.9	0.34	94.5	8.4	54.6	9.39
891205 OR880422		89XWPYT115	SNW	58.8	70.9	0.37	87.6	9.1	54.2	9.73
891206 OR880428		89XWPYT119	SNW	60.4	68.6	0.39	83.3	8.7	53.0	9.15
891207 OR880429		89XWPYT120	SNW	64.0	71.3	0.38	87.4	8.7	52.8	9.17
891208 OR880430		89XWPYT121	SNW	61.2	71.8	0.35	90.5	8.7	50.9	9.19
891209 OR880433		89XWPYT122	SNW	62.0	71.0	0.36	88.9	7.9	52.7	9.82
891210 OR880435		89XWPYT123	SNW	62.4	72.8	0.38	89.3	7.9	54.6	8.84
891211 OR880439		89XWPYT124	SNW	59.2	69.8	0.39	84.9	8.8	52.7	9.20
891212 OR880441		89XWPYT125	SNW	60.4	71.8	0.41	86.2	8.6	53.8	9.33
891213 OR880446		6/ 89XWPYT130	SNW	62.0	74.9	0.36	93.3	8.6	54.4	9.31
891214 OR880447		89XWPYT131	SNW	60.4	71.2	0.35	89.7	8.0	53.8	9.61

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CORVALLIS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	RMKS
891185 OR880143		89XWPTYT28	SNW	9.08	2L P-FYELD, P-COD1	
891186 OR880145		89XWPTYT30	SNW	9.61	2L Q-FYELD	
891187 OR880162		89XWPTYT32	SNW	9.43	4M P-FYELD, Q-FASH	
891188 OR880236		89XWPTYT51	SNW	9.25	2L P-FYELD	
891189 OR880237		89XWPTYT52	SNW	9.40	2L P-FYELD	
891190 OR880239		89XWPTYT54	SNW	9.60	2L P-FYELD	
891191 OR880346		89XWPTYT73	SNW	9.44	3M	
891192 OR880347		89XWPTYT74	SNW	9.66	3M	
891193 OR880352		89XWPTYT78	SNW	9.44	4L Q-FYELD, Q-FASH	
891194 OR880353		89XWPTYT79	SNW	8.90	5L P-FYELD, P-COD1	
891195 OR880356		89XWPTYT82	SNW	9.37	4M Q-FYELD	
891196 OR880373		89XWPTYT93	SNW	9.93	4M Excellent COD1	
891197 OR880374		89XWPTYT94	SNW	9.48	4M Q-FYELD, Q-MSCOR	
891198 OR880375		89XWPTYT95	SNW	9.62	4M Q-FASH, Q-MSCOR	
891199 OR880379		89XWPTYT97	SNW	9.48	4M Q-FYELD	
891200 OR880389		89XWPTYT104	SNW	8.98	3L VP-FYELD, P-MSCOR, P-COD1	
891201 OR880399		89XWPTYT110	SNW	9.48	3L	
891202 OR880401		89XWPTYT111	SNW	9.30	2M Q-FYELD, Q-MSCOR	
891203 OR880404		89XWPTYT113	SNW	9.34	2M Q-FYELD, Q-FASH, Q-MSCOR	
891204 OR880407		89XWPTYT114	SNW	9.43	2M Excellent FYELD	
891205 OR880422		89XWPTYT115	SNW	9.85	3M Q-MSCOR, Excellent COD1	
891206 OR880428		89XWPTYT119	SNW	9.23	4M P-FYELD, P-MSCOR	
891207 OR880429		89XWPTYT120	SNW	9.25	3M Q-MSCOR	
891208 OR880430		89XWPTYT121	SNW	9.26	2M	
891209 OR880433		89XWPTYT122	SNW	9.81	2M Excellent COD1	
891210 OR880435		89XWPTYT123	SNW	8.83	3M P-COD1	
891211 OR880439		89XWPTYT124	SNW	9.29	3M P-FYELD, P-MSCOR	
891212 OR880441		89XWPTYT125	SNW	9.39	5M Q-FASH, Q-MSCOR	
891213 OR880446		89XWPTYT130	SNW	9.38	5M	
891214 OR880447		89XWPTYT131	SNW	9.61	4M	

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CORVALLIS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	COOI
891215 OR880494		6/ 89XWPTY1157	SNW	60.0	72.8	0.36	91.2	8.5	53.1	9.66
891216 OR880508		6/ 89XWPTY1167	SNW	60.0	73.4	0.35	92.0	8.2	51.7	9.60
891217 OR880522		6/ 89XWPTY1177	SNW	62.4	73.5	0.37	91.4	8.4	52.4	9.58
891218 OR880448		6/ 89XWPTY1214	SNW	62.8	73.7	0.35	92.4	8.0	53.4	9.48
891219 HILL		89XWPTY1268	SNW	61.6	73.2	0.38	89.9	8.0	54.3	9.65
891220 STEPHENS		89XWPTY1280	SNW	61.2	71.4	0.36	89.4	9.3	55.4	9.27

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CORVALLIS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	COOIC 4/	MTYPE	RMKS
891215 OR880494		89XWPTYT157	SNW	9.72	2L	
891216 OR880508		89XWPTYT167	SNW	9.62	1L	
891217 OR880522		89XWPTYT177	SNW	9.62	2L	
891218 OR880448		89XWPTYT214	SNW	9.48	6M	
891219 HILL		89XWPTYT268	SNW	9.65	3L	
891220 STEPHENS		89XWPTYT280	SNW	9.42	3M	

COMMENTS: This nursery averaged 8% flour protein. The major deficiencies of several selections in this nursery were poor to questionable flour yield and/or milling score and cookie spread. Seven selections were classified as **HMW** by NIR analysis. Several selections were footnoted as having promising overall milling and baking properties. See "Footnotes" and "Remarks".

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PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
891221 OR880384		89XWPTY100	HW	62.0	70.3	0.43	83.5	7.9	56.4	4M
891222 OR880464		89XWPTY136	HW	64.4	66.4	0.40	81.0	8.5	57.3	3M
891223 OR889065		89XWPTY224	HW	65.6	70.8	0.35	88.1	8.5	54.4	2M
891224 OR889067		89XWPTY225	HW	65.2	71.0	0.33	89.4	8.4	55.0	2M
891225 OR889068		89XWPTY226	HW	65.2	66.0	0.37	82.1	7.9	56.1	3L
891226 OR889069		89XWPTY227	HW	65.2	65.7	0.41	79.7	7.1	56.8	3L
891227 OR889071		89XWPTY229	HW	66.0	66.6	0.37	82.7	7.8	58.5	3L
891228 OR889073		89XWPTY230	HW	64.8	66.1	0.33	84.3	7.5	58.3	4L
891229 OR889079		89XWPTY236	HW	65.2	68.7	0.36	85.4	8.5	55.5	3M
891230 OR889080		89XWPTY237	HW	65.2	67.9	0.36	84.6	8.1	55.8	3M
891231 OR889083		89XWPTY239	HW	64.8	66.8	0.36	83.4	8.5	56.0	2M
891232 OR889086		89XWPTY244	HW	64.4	67.5	0.34	85.2	9.2	55.5	4M
891233 OR889087		89XWPTY245	HW	65.2	69.2	0.34	86.9	10.2	54.5	3M
891234 OR889088		89XWPTY246	HW	65.2	68.9	0.32	87.7	9.6	55.3	5M
891235 OR889090		89XWPTY247	HW	64.8	66.8	0.35	83.9	8.3	55.4	3M
891236 OR889137		89XWPTY248	HW	64.0	71.9	0.35	89.3	8.0	56.0	3M
891237 OR889143		89XWPTY249	HW	64.4	69.1	0.38	84.8	7.9	56.0	5M
891238 OR889144		89XWPTY250	HW	64.4	69.1	0.35	86.3	6.9	57.4	4L
891239 OR889149		89XWPTY253	HW	62.8	68.1	0.37	84.3	5.8	55.6	5L
891240 OR889150		89XWPTY254	HW	63.2	67.3	0.34	85.0	5.9	57.0	5L
891241 OR889176		89XWPTY257	HW	63.2	71.8	0.34	89.7	6.7	55.2	5L
891242 OR889208		89XWPTY260	HW	64.0	71.4	0.34	89.3	6.9	55.1	3L
891243 OR889209		89XWPTY261	HW	62.8	72.2	0.35	90.5	7.2	52.9	4L
891244 OR889210		89XWPTY262	HW	63.6	70.9	0.34	88.8	7.1	55.3	4L
891245 OR889303		89XWPTY266	HW	63.2	68.7	0.33	87.0	7.1	53.3	3L
891246 OR889304		89XWPTY267	HW	61.6	67.6	0.37	83.7	6.7	52.8	3L
891247 OR889309		89XWPTY270	HW	64.0	67.4	0.33	85.6	7.5	51.7	2M
891248 OR889311		89XWPTY271	HW	62.8	67.4	0.37	83.6	7.2	51.1	2M

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 8% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 8% protein.

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PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	WTIN	NOSCOR	RMKS
891221 OR880384		89XWPTY100	HWW			
891222 OR880464		89XWPTY136	HWW	350	74	P-FYELD
891223 OR889065		89XWPTY224	HWW			
891224 OR889067		89XWPTY225	HWW			
891225 OR889068		89XWPTY226	HWW			P-FYELD
891226 OR889069		89XWPTY227	HWW			
891227 OR889071		89XWPTY229	HWW			P-FYELD
891228 OR889073		89XWPTY230	HWW			P-FYELD
891229 OR889079		89XWPTY236	HWW			Q-FYELD
891230 OR889080		89XWPTY237	HWW			P-FYELD
891231 OR889083		89XWPTY239	HWW	309	69	P-FYELD, P-WTIN, P-NOSCOR
891232 OR889086		89XWPTY244	HWW	308	71	P-FYELD, P-WTIN, P-Q-NOSCOR
891233 OR889087		89XWPTY245	HWW	323	71	Q-FYELD, P-WTIN, P-Q-NOSCOR
891234 OR889088		89XWPTY246	HWW	315	71	Q-FYELD, P-WTIN, P-Q-NOSCOR
891235 OR889090		89XWPTY247	HWW			P-FYELD
891236 OR889137		89XWPTY248	HWW			
891237 OR889143		89XWPTY249	HWW			Q-FYELD
891238 OR889144		89XWPTY250	HWW			Q-FYELD
891239 OR889149		89XWPTY253	HWW			Q-FYELD
891240 OR889150		89XWPTY254	HWW			P-FYELD
891241 OR889176		89XWPTY257	HWW			
891242 OR889208		89XWPTY260	HWW			Q-FYELD
891243 OR889209		89XWPTY261	HWW			
891244 OR889210		89XWPTY262	HWW			
891245 OR889303		89XWPTY266	HWW			Q-FYELD
891246 OR889304		89XWPTY267	HWW			
891247 OR889309		89XWPTY270	HWW			P-FYELD
891248 OR889311		89XWPTY271	HWW			P-FYELD

COMMENTS:

This nursery averaged 8% flour protein. Due to the low protein and weak mixograph properties, no bread was baked from this nursery. Udon noodles were made from five of the higher protein selections. Noodle quality of 4 of the 5 selections was considered poor to questionable. One major deficiency of several selections in this nursery was their poor to questionable flour yield. See "Remarks".

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PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	CODI
891249 STEPHENS		89XWPTY11	SNW	60.4	71.2	0.38	87.4	9.3	51.8	8.81
891250 OR880017		89XWPTY14	HW	65.2	71.1	0.29	91.6	9.6	55.5	8.83
891251 OR880072		5/ 89XWPTY11	SNW	63.2	72.7	0.34	91.7	9.1	53.3	9.54
891252 OR880157		5/ 89XWPTY31	SNW	62.8	73.6	0.37	91.1	7.6	52.9	9.50
891253 OR880172		89XWPTY34	SNW	63.6	72.7	0.33	92.4	7.5	53.5	9.16
891254 OR880188		89XWPTY36	SNW	63.2	74.3	0.35	93.2	9.2	53.4	8.92
891255 OR880196		89XWPTY43	SNW	63.2	70.1	0.36	87.2	8.5	53.1	9.21
891256 OR880241		89XWPTY55	SNW	65.6	67.8	0.32	86.8	8.8	52.2	8.95
891257 OR880242		89XWPTY56	SNW	66.8	68.9	0.33	87.6	8.8	53.2	8.95
891258 OR880243		89XWPTY57	SNW	65.2	68.6	0.32	87.8	9.0	53.6	8.95
891259 OR880244		89XWPTY59	SNW	62.0	68.9	0.37	85.1	8.2	53.3	8.46
891260 OR880354		89XWPTY80	SNW	61.2	72.1	0.35	90.4	7.0	54.1	9.40
891261 OR880357		89XWPTY83	SNW	60.8	71.1	0.33	90.4	7.9	54.0	9.35
891262 OR880358		89XWPTY84	SNW	61.6	71.6	0.31	92.3	8.3	52.5	9.21
891263 OR880359		89XWPTY85	HW	63.6	67.9	0.28	88.8	8.0	55.7	8.56
891264 OR880362		89XWPTY87	SNW	63.2	65.6	0.38	80.2	8.6	54.0	8.95
891265 OR880363		89XWPTY88	SNW	63.6	68.7	0.37	84.9	8.2	53.7	8.81
891266 OR880365		89XWPTY90	SNW	62.4	72.0	0.36	89.7	7.5	52.2	9.46
891267 OR880383		89XWPTY99	HW	62.4	69.4	0.32	88.2	8.3	54.4	8.66
891268 OR880388		89XWPTY103	SNW	60.8	68.0	0.35	85.2	8.9	52.2	8.86
891269 OR880473		5/ 89XWPTY143	SNW	63.6	73.7	0.35	92.4	8.7	52.4	9.40
891270 OR880477		89XWPTY144	SNW	64.0	74.0	0.33	94.1	8.3	52.8	9.06
891271 OR880478		89XWPTY145	HW	64.4	71.4	0.33	89.8	8.8	54.0	9.25
891272 OR880479		5/ 89XWPTY146	SNW	62.8	73.6	0.32	94.2	8.0	53.3	9.50
891273 OR880481		89XWPTY147	SNW	64.8	73.2	0.31	94.3	8.1	54.0	8.96
891274 OR880482		5/ 89XWPTY148	SNW	64.0	74.2	0.32	95.0	8.8	52.6	9.26
891275 OR880485		89XWPTY149	SNW	66.0	75.3	0.30	97.6	8.7	52.8	9.30
891276 OR880487		5/ 89XWPTY150	SNW	64.0	73.1	0.32	93.5	8.9	52.7	9.37
891277 OR880488		89XWPTY151	HW	66.8	72.0	0.29	92.6	9.3	53.3	9.51
891278 OR880489		5/ 89XWPTY152	SNW	63.2	73.1	0.34	92.3	7.4	52.7	9.48

1/ Observed values corrected to 14% moisture basis.

5/ Particularly promising overall quality characteristics.

3/ Absorption at 14% moisture corrected to 8% protein.

6/ Promising overall quality characteristics.

4/ Observed values corrected to 8% protein.

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PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	RMKS
891249 STEPHENS		89XWPTY1	SNW	8.96	2M	
891250 OR880017		89XWPTY4	HW	8.95	3M	
891251 OR880072		89XWPTY11	SNW	9.66	2M	Excellent COD1
891252 OR880157		89XWPTY31	SNW	9.46	1M	Excellent COD1
891253 OR880172		89XWPTY34	SNW	9.11	2M	
891254 OR880188		89XWPTY36	SNW	9.06	3M	Excellent FYELD
891255 OR880196		89XWPTY43	SNW	9.27	3M	Q-FYELD
891256 OR880241		89XWPTY55	SNW	9.04	1M	P-FYELD
891257 OR880242		89XWPTY56	SNW	9.04	2M	P-FYELD
891258 OR880243		89XWPTY57	SNW	9.06	2M	P-FYELD
891259 OR880244		89XWPTY59	SNW	8.48	2M	P-FYELD, P-COD1
891260 OR880354		89XWPTY80	SNW	9.29	3L	
891261 OR880357		89XWPTY83	SNW	9.34	4L	
891262 OR880358		89XWPTY84	SNW	9.25	3L	
891263 OR880359		89XWPTY86	HW	8.56	3L	P-FYELD, P-COD1
891264 OR880362		89XWPTY87	SNW	9.02	3L	VP-FYELD
891265 OR880363		89XWPTY88	SNW	8.83	3L	P-FYELD, Q-COD1
891266 OR880365		89XWPTY90	SNW	9.41	3L	
891267 OR880383		89XWPTY99	HW	8.69	2M	Q-FYELD, P-COD1
891268 OR880388		89XWPTY103	SNW	8.96	2L	P-FYELD
891269 OR880473		89XWPTY143	SNW	9.48	2M	
891270 OR880477		89XWPTY144	SNW	9.10	2L	Excellent FYELD
891271 OR880478		89XWPTY145	HW	9.31	2M	
891272 OR880479		89XWPTY146	SNW	9.50	1M	Excellent COD1
891273 OR880481		89XWPTY147	SNW	8.97	2L	
891274 OR880482		89XWPTY148	SNW	9.35	1M	Excellent FYELD
891275 OR880485		89XWPTY149	SNW	9.38	2L	Excellent FYELD
891276 OR880487		89XWPTY150	SNW	9.47	2M	
891277 OR880488		89XWPTY151	HW	9.62	2M	Excellent COD1
891278 OR880489		89XWPTY152	SNW	9.41	2L	

SWM PRELIMINARY YIELD TRIAL

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PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	COOI
891279 OR880490		89XWPTY153	SWM	61.6	72.3	0.38	88.7	7.0	52.8	9.11
891280 OR880497		89XWPTY161	SWM	63.6	72.6	0.33	92.3	7.4	52.7	9.35
891281 OR880499		89XWPTY162	HWM	64.4	71.0	0.28	92.0	7.9	54.3	9.64
891282 OR880501		89XWPTY163	SWM	62.4	71.5	0.32	91.5	6.9	53.9	9.25
891283 OR880505		89XWPTY166	SWM	62.4	71.3	0.32	91.7	6.6	54.4	9.45
891284 OR880509		89XWPTY168	SWM	62.4	72.1	0.32	92.7	7.1	55.4	9.45
891285 OR880510		89XWPTY169	SWM	62.8	73.0	0.35	91.5	7.4	53.7	9.27
891286 OR880511		89XWPTY170	SWM	62.0	71.8	0.31	92.5	7.5	53.6	9.49
891287 OR880516		89XWPTY172	SWM	62.8	72.1	0.34	91.1	7.5	53.9	9.25
891288 OR880518		89XWPTY174	HWM	63.6	70.3	0.27	91.9	7.3	54.5	9.06
891289 OR880519		89XWPTY175	SWM	62.8	72.6	0.31	93.6	7.1	54.9	9.45
891290 OR880525		5/ 89XWPTY180	SWM	66.0	73.2	0.29	95.6	7.9	53.1	9.36
891291 OR880529		89XWPTY182	HWM	64.4	70.5	0.30	90.5	7.9	55.3	9.23
891292 OR880535		89XWPTY185	SWM	62.8	73.6	0.30	95.4	6.7	56.1	9.12
891293 OR880537		89XWPTY186	SWM	64.4	73.8	0.35	92.6	7.6	54.5	9.12
891294 OR880539		89XWPTY187	SWM	63.6	73.0	0.29	95.3	8.1	53.0	9.11
891295 OR880541		5/ 89XWPTY188	SWM	62.8	73.4	0.34	92.7	8.9	53.1	9.55
891296 OR880542		89XWPTY189	SWM	61.2	70.9	0.33	90.1	6.7	57.2	9.10
891297 OR880555		89XWPTY193	SWM	61.6	71.2	0.35	89.3	6.7	55.8	8.99
891298 OR880731		89XWPTY202	SWM	63.2	73.1	0.34	92.3	6.8	55.2	9.45
891299 OR880809		89XWPTY204	SWM	61.6	65.1	0.34	82.1	6.0	56.1	9.37
891300 OR880982		89XWPTY238	SWM	64.8	66.1	0.40	79.7	7.0	55.0	8.67
891301 OR889147		89XWPTY252	SWM	60.4	70.0	0.38	85.9	6.6	54.4	9.12
891302 OR889211		89XWPTY263	SWM	62.4	71.3	0.35	89.4	5.7	56.4	8.84
891303 OR889255		89XWPTY265	HWM	64.4	69.1	0.30	89.0	7.1	56.7	9.25

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LABNUM	VARIETY	IDNO	CLASS	CODIC 4/	MTYPE	RMKS
891279 OR880490		89XWPTY153	SWW	9.00	2L	
891280 OR880497		89XWPTY161	SWW	9.28	2L	
891281 OR880499		89XWPTY162	HWW	9.63	3L	Excellent COD1
891282 OR880501		89XWPTY163	SWW	9.13	2L	
891283 OR880505		89XWPTY166	SWW	9.30	2L	
891284 OR880509		89XWPTY168	SWW	9.35	2L	
891285 OR880510		89XWPTY169	SWW	9.21	2L	
891286 OR880511		89XWPTY170	SWW	9.43	2L	
891287 OR880516		89XWPTY172	SWW	9.19	3L	
891288 OR880518		89XWPTY174	HWW	9.01	3L	Q-FYELD
891289 OR880519		89XWPTY175	SWW	9.35	2L	
891290 OR880525		89XWPTY180	SWW	9.35	2L	
891291 OR880529		89XWPTY182	HWW	9.22	2L	Q-FYELD
891292 OR880535		89XWPTY185	SWW	8.98	3L	Excellent FYELD
891293 OR880537		89XWPTY186	SWW	9.08	3L	Excellent FYELD
891294 OR880539		89XWPTY187	SWW	9.12	2L	
891295 OR880541		89XWPTY188	SWW	9.65	1M	
891296 OR880542		89XWPTY189	SWW	8.96	2L	
891297 OR880555		89XWPTY193	SWW	8.84	2L	Q-COD1
891298 OR880731		89XWPTY202	SWW	9.32	2L	
891299 OR880809		89XWPTY204	SWW	9.15	1L	VP-FYELD
891300 OR880802		89XWPTY238	SWW	8.56	2M	VP-FYELD, P-COD1
891301 OR880917		89XWPTY252	SWW	8.97	1L	Q-FYELD, P-MSCOR
891302 OR889211		89XWPTY263	SWW	8.58	3L	P-COD1
891303 OR889255		89XWPTY265	HWW	9.18	4L	Q-FYELD

COMMENTS: This nursery averaged 8% flour protein. The major deficiencies of some selections were poor to questionable flour yield and/or cookie diameter. A few selections which were footnoted have good to excellent overall milling and baking properties. Six selections out of this nursery were classified as HWW by NIR hardness. Three of these HWW selections had respectable cookie spread. See "Footnotes" and "Remarks".

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PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891304	STEPHENS	89SWRAN1	SWW	62.4	74.0	0.38	90.9	8.3	43	51.3
891305	HILL	89SWRAN2	SWW	63.5	74.4	0.36	92.7	8.1	44	51.5
891306	MALCOLM	89SWRAN3	SWW	62.9	72.8	0.38	89.4	7.7	45	51.3
891307	OR8401866P	89SWRAN10	SWW	60.0	73.3	0.37	90.7	7.4	36	51.7
891308	OR8505401P	89SWRAN15	SWW	61.8	72.9	0.36	90.8	7.6	45	51.4
891309	OR8501139H	89SWRAN17	SWW	62.4	73.5	0.31	94.7	7.4	37	51.7
891310	OR8501162P	89SWRAN18	SWW	63.2	71.5	0.37	88.4	7.4	34	51.6
891311	OR8501047P	89SWRAN20	SWW	59.7	70.4	0.37	87.0	6.0	36	52.6
891312	OR8507847P	89SWRAN21	SWW	61.5	72.6	0.36	90.4	7.0	35	51.1
891313	OR8505311P	6/ 89SWRAN23	SWW	62.3	73.9	0.35	92.7	7.2	42	50.9
891314	OR8400464P	6/ 89SWRAN27	SWW	62.6	73.7	0.36	91.9	8.3	41	52.1
891315	OR860577	89SWRAN29	SWW	61.8	73.0	0.30	94.7	7.8	43	51.3
891316	OR860754	89SWRAN30	SWW	64.7	69.9	0.28	90.8	7.1	44	54.1
891317	OR861226	89SWRAN34	SWW	63.5	67.4	0.29	87.7	6.4	43	55.0
891318	OR860297	89SWRAN39	SWW	64.7	69.8	0.27	92.5	7.2	40	53.8
891319	OR860302	89SWRAN41	SWW	64.0	70.2	0.29	91.7	7.1	36	54.0
891320	OR860303	89SWRAN42	SWW	61.9	70.1	0.35	87.8	6.5	30	53.8
891321	OR860575	89SWRAN46	SWW	61.7	72.2	0.34	91.1	7.4	34	52.7
891322	OR860576	89SWRAN47	SWW	61.0	70.7	0.35	88.6	6.4	32	52.9
891323	OR860802	89SWRAN56	SWW	62.7	70.6	0.39	86.0	7.6	37	52.4
891324	OR870025	89SWRPN7	SWW	63.0	73.4	0.37	90.8	9.3	46	53.0
891325	OR870082	89SWRPN15	SWW	62.0	69.2	0.36	86.1	6.7	33	52.4
891326	OR870094	89SWRPN16	SWW	63.6	72.1	0.37	89.1	7.0	43	54.1
891327	OR870102	89SWRPN18	SWW	63.2	71.4	0.36	88.9	6.7	45	52.4
891328	OR870112	89SWRPN23	SWW	63.4	70.2	0.37	86.7	7.4	32	51.1
891329	OR870156	89SWRPN29	SWW	62.4	72.2	0.37	89.3	7.1	42	51.5
891330	OR870216	89SWRPN41	SWW	63.3	73.3	0.38	90.0	7.5	45	51.3
891331	OR870221	89SWRPN43	SWW	62.5	72.2	0.34	91.2	7.2	41	51.3
891332	OR870222	89SWRPN44	SWW	61.7	71.2	0.37	88.0	6.8	33	51.3
891333	OR870226	89SWRPN45	SWW	61.2	73.0	0.36	90.9	6.6	31	53.7

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 7% protein.

4/ Observed values corrected to 7% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	MTYPE	RMKS
891304 STEPHENS		89SWRAN1	SWW	8.99	9.13	2L	
891305 HILL		89SWRAN2	SWW	9.00	9.12	2L	
891306 MALCOLM		89SWRAN3	SWW	9.42	9.50	2L	
891307 OR840186P		89SWRAN10	SWW	9.11	9.16	2L	Q-TWT
891308 OR8505401P		89SWRAN15	SWW	8.84	8.90	2L	P-COD1
891309 OR8501139H		89SWRAN17	SWW	9.05	9.09	2L	
891310 OR8501162P		89SWRAN18	SWW	8.91	8.96	2L	P-FYELD, Q-COD1
891311 OR8501047P		89SWRAN20	SWW	9.32	9.22	2L	Q-TWT, P-FYELD, P-MSCOR
891312 OR8507847P		89SWRAN21	SWW	9.48	9.48	2L	
891313 OR8505311P		89SWRAN23	SWW	9.37	9.40	3L	
891314 OR8400464P		89SWRAN27	SWW	9.15	9.29	3L	
891315 OR860577		89SWRAN29	SWW	8.90	8.99	2L	
891316 OR860754		89SWRAN30	SWW	9.44	9.45	3L	Q-COD1, Low FASH
891317 OR861226		89SWRAN34	SWW	9.00	8.95	2L	P-FYELD, Low FASH
891318 OR860297		89SWRAN39	SWW	8.85	8.87	2L	P-FYELD, Low FASH, Q-COD1
891319 OR860302		89SWRAN41	SWW	9.24	9.25	2L	P-FYELD, Low FASH
891320 OR860303		89SWRAN42	SWW	8.94	8.88	2L	P-FYELD, P-COD1
891321 OR860575		89SWRAN46	SWW	9.31	9.36	2L	
891322 OR860576		89SWRAN47	SWW	8.69	8.62	5L	P-FYELD, P-COD1
891323 OR860802		89SWRAN56	SWW	8.92	8.99	2L	P-FYELD, Q-COD1
891324 OR870025		89SWRPN7	SWW	9.06	9.32	3M	
891325 OR870082		89SWRPN15	SWW	9.55	9.52	2L	P-FYELD
891326 OR870094		89SWRPN16	SWW	9.20	9.20	2L	Q-FYELD
891327 OR870102		89SWRPN18	SWW	8.84	8.80	2L	Q-FYELD, P-COD1
891328 OR870112		89SWRPN23	SWW	8.85	8.89	2L	P-FYELD, P-MSCOR, P-COD1
891329 OR870156		89SWRPN29	SWW	9.56	9.57	2L	
891330 OR870216		89SWRPN41	SWW	9.12	9.18	2L	
891331 OR870221		89SWRPN43	SWW	9.31	9.33	2L	
891332 OR870222		89SWRPN44	SWW	9.39	9.37	1L	P-FYELD
891333 OR870226		89SWRPN45	SWW	8.98	8.93	3L	P-COD1

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PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891334 OR870237		89SWRPN46	SWW	62.4	70.4	0.40	85.0	7.1	35	53.8
891335 OR870337		89SWRPN51	SWW	62.8	70.4	0.41	84.4	7.5	39	52.3
891336 OR870338		89SWRPN52	SWW	62.6	67.6	0.41	80.9	7.1	40	51.7
891337 OR870367		89SWRPN56	SWW	63.7	70.5	0.43	83.3	6.8	51	54.5
891338 OR870470		89SWRPN69	HWW	63.5	73.6	0.43	87.3	8.6	60	52.5
891339 OR870513		89SWRPN70	HWW	64.4	71.6	0.31	92.3	9.7	55	53.4
891340 OR870516		89SWRPN71	HWW	63.5	72.1	0.34	91.0	8.8	55	53.3
891341 OR870601		89SWRPN75	SWW	61.9	73.5	0.47	84.7	7.3	50	52.2
891342 OR870607		89SWRPN76	HWW	64.8	73.0	0.43	86.5	7.0	62	53.8
891343 OR870666		89SWRPN78	SWW	64.2	68.9	0.42	82.6	6.7	45	56.4
891344 OR870695		89SWRPN83	SWW	62.4	70.7	0.44	83.0	6.9	42	54.7
891345 OR870702		89SWRPN85	SWW	61.5	71.9	0.42	85.8	7.0	42	53.0
891346 OR870815		89SWRPN90	SWW	63.9	71.5	0.42	85.3	8.3	46	53.1
891347 OR870817		89SWRPN92	SWW	63.0	70.3	0.43	83.1	6.9	40	53.4
891348 OR870819		89SWRPN93	SWW	64.2	70.2	0.42	83.6	8.7	42	53.1
891349 OR870821		89SWRPN94	SWW	63.6	70.3	0.39	85.6	7.4	39	52.9
891350 OR870827		89SWRPN98	SWW	63.5	70.7	0.38	86.7	7.9	41	53.2
891351 OR870830		89SWRPN99	SWW	63.6	70.8	0.41	85.0	8.0	42	52.1
891352 OR870831		89SWRPN100	SWW	63.8	69.0	0.37	84.9	7.7	43	52.6
891353 OR870917		89SWRPN102	SWW	63.4	70.1	0.39	85.3	8.1	46	54.0
891354 OR870945		89SWRPN103	SWW	62.5	69.7	0.47	79.7	7.7	51	54.8
891355 OR871096		89SWRPN107	SWW	63.4	69.1	0.30	89.7	6.9	38	53.4
891356 OR871223		89SWRPN113	SWW	63.7	71.3	0.33	90.6	6.7	46	53.1
891357 OR871225		89SWRPN114	SWW	63.7	70.7	0.35	88.6	6.8	44	53.1
891358 .		89SWRPN122	SWW	61.8	71.0	0.37	87.7	7.6	37	52.7
891359 .		89SWRPN123	HWW	61.6	70.1	0.45	81.5	7.1	72	52.8
891360 .		89SWRPN124	HWW	62.1	70.3	0.38	86.0	7.2	72	54.3

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PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	MTYPE	RMKS
891334 OR870237		89SWRPN46	SWW	8.90	8.91	2L	P-FYELD, P-MSCOR, P-COD1
891335 OR870337		89SWRPN51	SWW	9.87	9.93	2L	P-FYELD, P-MSCOR
891336 OR870338		89SWRPN52	SWW	9.36	9.37	2L	P-FYELD, P-MSCOR
891337 OR870367		89SWRPN56	SWW	8.91	8.89	3L	P-FYELD, P-MSCOR, P-COD1
891338 OR870470		89SWRPN69	HWW	8.84	9.01	3M	Q-MSCOR
891339 OR870513		89SWRPN70	HWW	8.71	9.01	2M	Q-FYELD, Low FASH
891340 OR870516		89SWRPN71	HWW	9.01	9.21	2M	Q-FYELD
891341 OR870601		89SWRPN75	SWW	9.30	9.33	2L	P-FASH, P-MSCOR
891342 OR870607		89SWRPN76	HWW	8.77	8.77	3L	Q-MSCOR, P-COD1
891343 OR870666		89SWRPN78	SWW	8.95	8.93	4L	P-FYELD, P-MSCOR, P-COD1
891344 OR870695		89SWRPN83	SWW	8.76	8.75	2L	P-FYELD, P-MSCOR, P-COD1
891345 OR870702		89SWRPN85	SWW	8.90	8.90	2L	Q-FYELD, P-MSCOR, P-COD1
891346 OR870815		89SWRPN90	SWW	9.09	9.23	2L	P-FYELD, P-MSCOR
891347 OR870817		89SWRPN92	SWW	8.99	8.98	1L	P-FYELD, P-MSCOR, Q-COD1
891348 OR870819		89SWRPN93	SWW	9.06	9.25	1L	P-FYELD, P-MSCOR
891349 OR870821		89SWRPN94	SWW	9.04	9.08	2L	P-FYELD, P-MSCOR
891350 OR870827		89SWRPN98	SWW	8.99	9.09	2L	P-FYELD, P-MSCOR
891351 OR870830		89SWRPN99	SWW	9.04	9.15	2L	P-FYELD, P-MSCOR
891352 OR870831		89SWRPN100	SWW	8.79	8.84	2L	P-FYELD, P-MSCOR, P-COD1
891353 OR870917		89SWRPN102	SWW	9.41	9.53	4L	P-FYELD, P-MSCOR
891354 OR870945		89SWRPN103	SWW	8.85	8.93	3L	P-FYELD, P-FASH, P-MSCOR, Q-COD1
891355 OR871096		89SWRPN107	SWW	9.41	9.40	3L	P-FYELD
891356 OR871223		89SWRPN113	SWW	8.91	8.88	2L	P-FYELD, P-COD1
891357 OR871225		89SWRPN114	SWW	9.26	9.24	2L	P-FYELD
891358 .		89SWRPN122	SWW	9.06	9.13	1L	P-FYELD
891359 .		89SWRPN123	HWW	8.37	8.39	2M	P-FYELD, P-FASH, P-MSCOR, P-COD1
891360 .		89SWRPN124	HWW	8.44	8.45	3L	P-FYELD, P-COD1

COMMENTS: This nursery averaged 7% flour protein content. Several selections in this nursery had poor to questionable milling properties (flour yield, high ash and milling score) when compared to the three check varieties - Stephens, Hill, and Malcol. Cookie diameter of several selections was also poor to questionable. Six selections in the nursery were classified as hard white winter by the NIR hardness test. Two selections, ID No's 89SWRAN23 and 89SWRAN27, were footnoted for having promising overall quality characteristics. See "Remarks".

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DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891361	ANZA 87W	173	HRW	63.3	71.5	0.30	91.4	11.4		63.5
891362	WHITE ANZA 87W	174	HRW	63.6	71.5	0.30	91.4	11.4		64.3
891363	WHITE ANZA 87W	175	HRW	63.6	71.7	0.28	92.7	11.3		64.0
891364	WHITE ANZA 87W	176	HRW	63.6	71.0	0.28	91.7	11.2		62.6
891365	WHITE ANZA 87W	177	HRW	63.4	70.7	0.28	91.3	11.6		64.4
891366	WHITE ANZA 87W	178	HRW	64.0	72.4	0.33	90.9	11.7		64.2
891367	WHITE ANZA 87W	179	HRW	64.5	71.5	0.31	90.9	11.3		63.4
891368	ANZA 87S	180	HRS	63.0	71.7	0.31	91.1	11.4		62.1
891369	WHITE ANZA 87S	181	HRS	63.2	71.3	0.31	90.7	11.2		62.3
891370	WHITE ANZA 87S	182	HWS	63.6	71.2	0.29	91.7	11.2		63.3
891371	WHITE ANZA 87S	183	HWS	63.4	70.9	0.30	90.8	11.3		61.7
891372	YECORA ROJO 87W	184	HRW	63.0	71.8	0.37	88.0	13.2		64.7
891373	WHITE YECORA ROJO 87W	185	HRW	63.9	70.4	0.35	87.7	13.3		66.2
891374	WHITE YECORA ROJO 87W	186	HRW	63.8	70.5	0.37	86.8	13.8		65.0
891375	WHITE YECORA ROJO 87W	187	HRW	63.2	70.8	0.37	87.1	13.9		65.5
891376	WHITE YECORA ROJO 87W	188	HRW	62.6	70.5	0.38	86.2	13.7		67.3
891377	WHITE YECORA ROJO 87W	189	HRW	62.6	70.5	0.39	85.8	13.7		66.6
891378	WHITE YECORA ROJO 87W	190	HRW	62.5	70.0	0.38	85.7	13.8		65.7
891379	YECORA ROJO 87S	191	HRS	61.2	69.9	0.35	87.2	14.1		65.3
891380	TANORI 71	192	HRS	61.8	71.3	0.31	90.7	13.6		65.8
891381	TANORI 87W	193	HRW	62.5	70.5	0.29	90.9	13.0		63.4
891382	WHITE TANORI 87W	194	HRW	62.6	71.5	0.28	92.5	13.4		62.1
891383	WHITE TANORI 87W	195	HRW	62.6	71.4	0.29	91.9	13.3		62.0
891384	TANORI 87S	199	HRS	61.6	70.8	0.28	91.8	13.2		63.1
891385	WHITE TANORI 87S	200	HWS	60.0	68.9	0.32	87.7	12.9		60.4
891386	PORTOLA	202	HRS	63.6	71.2	0.28	92.2	13.2		63.8
891387	YECORA ROJO	116	HRS	62.6	71.3	0.31	90.8	13.5		64.6
891388	PHOENIX	117	HRW	63.6	71.9	0.29	92.4	11.4		64.0
891389	ANZA	118	HRS	64.3	71.8	0.29	92.3	10.9		61.1
891390	PORTOLA 87W	203	HRS	64.0	70.8	0.29	91.3	12.9		62.1

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 13% protein.

4/ Observed values corrected to 13% protein.

5/ Particularly promising overall quality characteristics.
6/ Promising overall quality characteristics.

NURSCO 49

DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
891361	ANZA 87W	173	HRW	3M	62.1	63.7	1.8	850	949	6
891362	WHITE ANZA 87W	174	HRW	4M	62.9	64.5	2.1	855	954	6
891363	WHITE ANZA 87W	175	HRW	4M	62.5	64.2	2.0	885	990	6
891364	WHITE ANZA 87W	176	HRW	3M	61.0	62.8	2.0	845	957	6
891365	WHITE ANZA 87W	177	HRW	3M	64.2	65.6	2.1	920	1007	6
891366	WHITE ANZA 87W	178	HRW	3M	64.1	65.4	2.2	945	1026	5
891367	WHITE ANZA 87W	179	HRW	3M	61.9	63.6	2.0	850	955	5
891368	ANZA 87S	180	HRS	3M	60.7	62.3	1.7	855	954	6
891369	WHITE ANZA 87S	181	HWS	3M	60.7	62.5	1.7	780	892	6
891370	WHITE ANZA 87S	182	HWS	3M	61.7	63.5	1.9	815	927	5
891371	WHITE ANZA 87S	183	HWS	3M	60.2	61.9	1.7	805	910	6
891372	YECORA ROJO 87W	184	HRW	5H	66.1	65.9	3.4	960	948	2
891373	WHITE YECORA ROJO 87W	185	HRW	5H	67.7	67.4	4.3	915	896	2
891374	WHITE YECORA ROJO 87W	186	HRW	6H	67.0	66.2	5.1	885	835	3
891375	WHITE YECORA ROJO 87W	187	HRW	6H	66.6	65.7	5.1	890	834	2
891376	WHITE YECORA ROJO 87W	188	HRW	6H	68.2	67.5	4.6	950	907	2
891377	WHITE YECORA ROJO 87W	189	HRW	6H	69.0	68.3	4.6	940	897	4
891378	WHITE YECORA ROJO 87W	190	HRW	6H	68.2	67.4	4.4	920	870	3
891379	YECORA ROJO 87S	191	HRS	5H	68.1	67.0	3.4	1000	932	2
891380	TANORI 71	192	HRS	5H	68.1	67.5	3.1	905	868	3
891381	TANORI 87W	193	HRW	3H	64.1	64.1	2.5	890	890	4
891382	WHITE TANORI 87W	194	HRW	3H	63.2	62.8	2.8	845	820	5
891383	WHITE TANORI 87W	195	HRW	3H	63.0	62.7	2.8	905	886	4
891384	TANORI 87S	199	HRS	3H	64.5	64.3	3.2	920	908	6
891385	WHITE TANORI 87S	200	HWS	3H	61.0	61.1	2.4	845	851	5
891386	PORTOLA	202	HRS	3H	64.7	64.5	2.4	935	923	3
891387	YECORA ROJO	116	HRS	5H	66.3	65.8	4.3	940	909	4
891388	PHOENIX	117	HRW	3H	63.1	64.7	2.5	935	1034	4
891389	ANZA	118	HRS	3M	59.2	61.3	2.1	805	935	8
891390	PORTOLA 87W	203	HRS	2H	62.7	62.8	2.4	945	951	4

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C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	RNKS
891361	ANZA 87W	173	HRW	P-MTIME, P-LVOL, Q-BCRGR
891362	WHITE ANZA 87W	174	HRW	P-MTIME, P-LVOL, Q-BCRGR
891363	WHITE ANZA 87W	175	HRW	P-MTIME, Q-BCRGR
891364	WHITE ANZA 87W	176	HRW	P-MTIME, P-LVOL, Q-BCRGR
891365	WHITE ANZA 87W	177	HRW	P-MTIME, Q-BCRGR
891366	WHITE ANZA 87W	178	HRW	P-MTIME, Q-BCRGR
891367	WHITE ANZA 87W	179	HRW	P-MTIME, P-LVOL, Q-BCRGR
891368	ANZA 87S	180	HRS	P-MTIME, P-LVOL, Q-BCRGR
891369	WHITE ANZA 87S	181	HWS	P-MTIME, VP-LVOL, Q-BCRGR
891370	WHITE ANZA 87S	182	HWS	P-MTIME, P-LVOL, Q-BCRGR
891371	WHITE ANZA 87S	183	HWS	P-MTIME, P-LVOL, Q-BCRGR
891372	YECORA ROJO 87W	184	HRW	P-LVOL
891373	WHITE YECORA ROJO 87W	185	HRW	P-LVOL
891374	WHITE YECORA ROJO 87W	186	HRW	VP-LVOL
891375	WHITE YECORA ROJO 87W	187	HRW	VP-LVOL
891376	WHITE YECORA ROJO 87W	188	HRW	P-LVOL
891377	WHITE YECORA ROJO 87W	189	HRW	P-LVOL, Q-S-BCRGR
891378	WHITE YECORA ROJO 87W	190	HRW	VP-LVOL
891379	YECORA ROJO 87S	191	HRS	P-LVOL
891380	TANORI 71	192	HRS	VP-LVOL
891381	TANORI 87W	193	HRW	P-LVOL, Q-S-BCRGR
891382	WHITE TANORI 87W	194	HRW	VP-LVOL, Q-BCRGR
891383	WHITE TANORI 87W	195	HRW	P-LVOL, Q-S-BCRGR
891384	TANORI 87S	199	HRS	P-LVOL, Q-BCRGR
891385	WHITE TANORI 87S	200	HWS	P-FYELD, Q-MTIME, VP-LVOL, Q-BCRGR
891386	PORTOLA	202	HRS	Q-MTIME, P-LVOL
891387	YECORA ROJO	116	HRS	
891388	PHOENIX	117	HRW	
891389	ANZA	118	HRW	
891390	PORTOLA 87W	203	HRS	Q-MTIME, P-Q-LVOL, Q-S-BCRGR

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DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	FHRD	MABSC
						<u>1/</u>		<u>1/</u>		<u>3/</u>
891391	PORTOLA 87S	204	HRS	64.0	70.1	0.29	90.5	12.7		62.7

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS	BABSC	MTIME	LVOL	LVOLC	BCRGR
					<u>1/</u>	<u>3/</u>			<u>4/</u>	
891391	PORTOLA 87S	204	HRS	3H	63.1	63.4	2.2	1040	1059	4

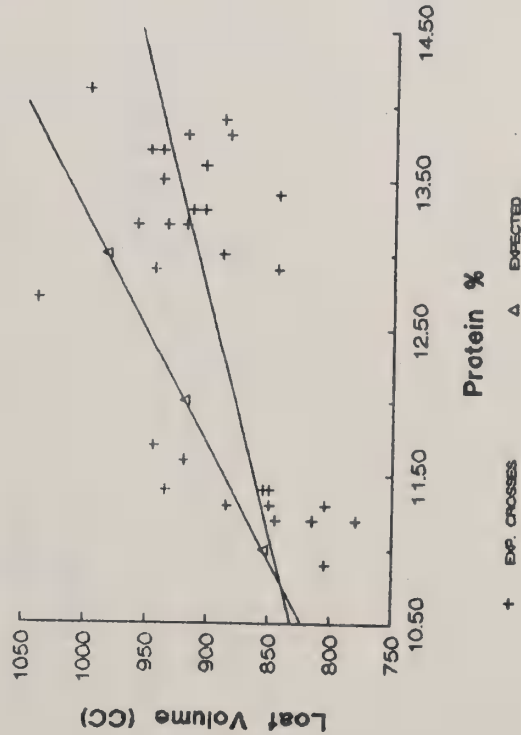
NURSCO 49

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C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	RMKS
891391	PORTOLA 875	204	HRS	P-Q-MTIME, Good loaf vol., Q-S-BCRGR

LOAF VOLUME VS PROTEIN



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DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
891392 ANZA 87W		E1	HRS	64.7	71.6	0.30	91.5	11.3	59.5	3M
891393 ANZA 87S		E2	HRS	64.0	71.5	0.30	91.4	11.1	59.5	3M
891394 ANZA		E3	HRS	64.5	70.8	0.30	90.7	11.0	58.4	3M
891395 YECORA ROJO 87W		E4	HRS	64.1	69.5	0.31	88.8	12.7	64.3	5H
891396 YECORA ROJO 87S		E5	HRS	63.1	70.8	0.31	90.1	13.5	63.4	5H
891397 YECORA ROJO		E6	HRS	64.6	70.8	0.31	90.2	13.5	62.2	5H
891398 TANORI 87W		E7	HRS	64.5	70.7	0.28	91.6	12.6	59.2	3H
891399 TANORI 87S		E8	HRS	64.0	69.9	0.28	90.7	12.9	62.9	3H
891400 TANORI 71		E9	HRS	65.6	69.7	0.28	90.5	13.4	62.2	3H
891401 PORTOLA 87W		E10	HRS	64.7	69.1	0.29	89.3	12.7	63.3	4H
891402 PORTOLA 87S		E11	HRS	65.1	69.1	0.29	89.4	12.9	62.0	3H
891403 PORTOLA		E12	HRS	64.1	69.9	0.28	90.8	12.5	61.8	3H
891404 PHOENIX		E19	HWS	63.9	73.3	0.37	89.6	11.3	61.8	2H

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 50

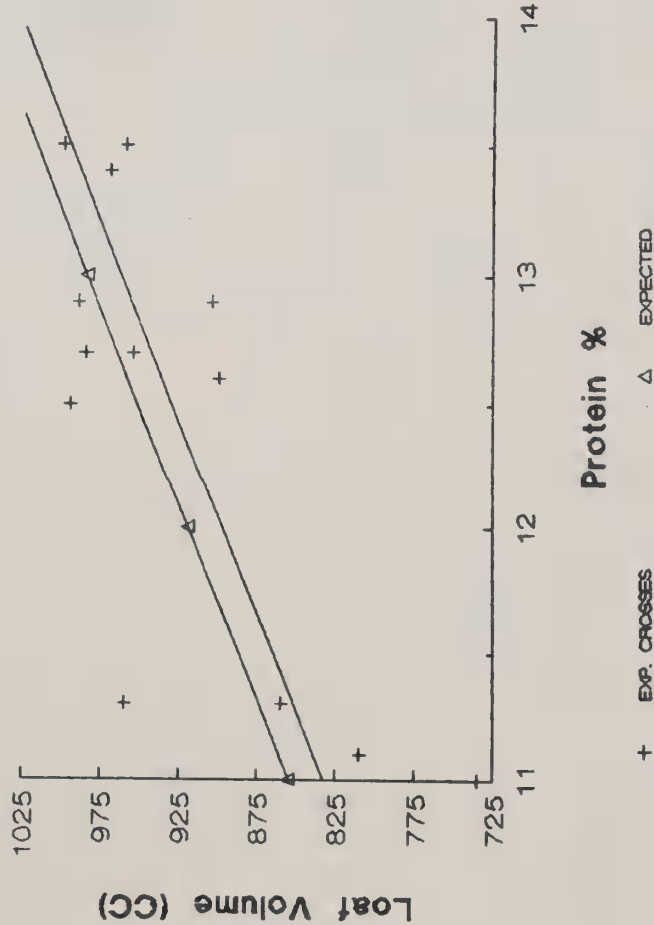
DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
891392 ANZA 87W		E1	HRS	60.5	61.2	2.2	860	903	8	Q-LVOL, P-BCRGR
891393 ANZA 87S		E2	HRS	60.3	61.2	2.1	810	866	8	P-LVOL, P-BCRGR
891394 ANZA		E3	HRS	59.1	60.1	1.9	735	797	9	P-LVOL, P-BCRGR
891395 YECORA ROJO 87W		E4	HRS	66.2	65.5	3.7	955	912	2	Q-FYELD, Q-LVOL
891396 YECORA ROJO 87S		E5	HRS	66.1	64.6	3.1	1000	907	2	Q-LVOL
891397 YECORA ROJO		E6	HRS	64.9	63.4	3.6	960	867	4	P-LVOL, Q-S-BCRGR
891398 TANORI 87W		E7	HRS	62.5	61.9	2.7	900	863	6	P-LVOL, Q-BCRGR
891399 TANORI 87S		E8	HRS	65.0	64.1	3.3	905	849	5	P-LVOL, Q-BCRGR
891400 TANORI 71		E9	HRS	64.3	62.9	3.1	970	883	4	P-LVOL, Q-S-BCRGR
891401 PORTOLA 87W		E10	HRS	64.2	63.5	2.4	985	942	4	Q-S-BCRGR
891402 PORTOLA 87S		E11	HRS	63.1	62.2	2.9	990	934	4	Q-S-BCRGR
891403 PORTOLA		E12	HRS	62.5	62.0	2.5	995	964	3	
891404 PHOENIX		E19	HWS	61.3	62.0	2.3	960	1003	4	Q-S-BCRGR

COMMENTS: This nursery averaged 12% flour protein. Comparisons were made among the three varieties in each group. Differences in milling properties within each group was generally small. Loaf volume and bread crumb grain score differences were a little more variable. Several did not have loaf volumes that would be expected for their flour protein level. See plot of loaf volume vs flour protein and "Remarks".

LOAF VOLUME VS PROTEIN



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DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	MABSC	MTYPE
						1/		1/	3/	
891405 ANZA 87W		E1	HRS	64.1	71.6	0.32	90.5	10.5	57.4	3M
891406 ANZA 87S		E2	HRS	64.1	71.1	0.32	89.9	10.6	58.3	3M
891407 ANZA		E3	HRS	64.5	71.0	0.31	90.3	10.8	56.8	3M
891408 YECORA ROJO 87W		E4	HRS	63.9	68.7	0.35	85.9	11.8	62.2	5H
891409 YECORA ROJO 87S		E5	HRS	63.1	70.0	0.38	85.7	11.9	61.3	4H
891410 YECORA ROJO		E6	HRS	65.0	70.0	0.36	86.7	11.4	61.9	6H
891411 TANORI 87W		E7	HRS	64.2	70.9	0.32	89.7	11.5	58.9	3H
891412 TANORI 87S		E8	HRS	64.2	70.7	0.29	91.1	11.7	59.8	3H
891413 TANORI 71		E9	HRS	64.3	70.9	0.30	90.8	12.0	60.3	3H
891414 PORTOLA 87W		E10	HRS	63.9	69.1	0.30	88.8	11.8	62.4	4H
891415 PORTOLA 87S		E11	HRS	64.8	70.0	0.32	88.8	11.7	62.2	4H
891416 PORTOLA		E12	HRS	64.7	70.7	0.31	90.1	12.2	61.0	4H
891417 PHOENIX		E19	HWS	63.0	71.2	0.35	88.6	11.3	62.1	3H

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 51

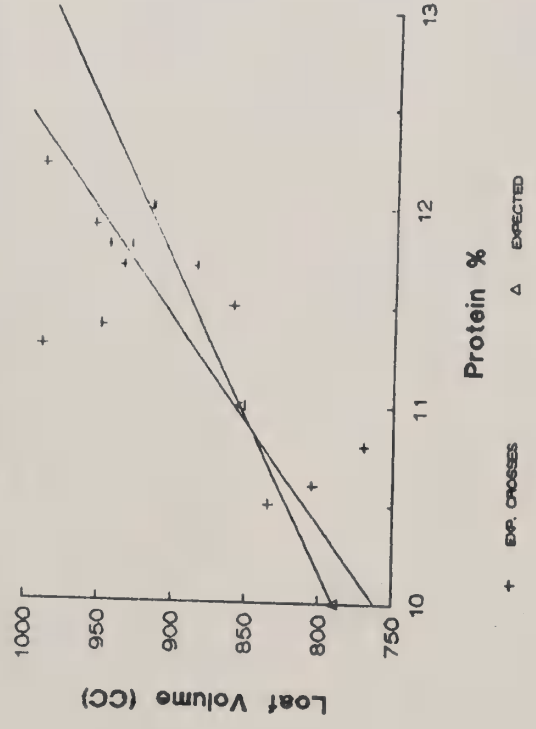
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LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
891405	ANZA 87W	E1	HRS	57.6	58.1	2.0	835	866	8	P-BCRGR
891406	ANZA 87S	E2	HRS	57.6	58.0	1.9	805	830	8	Q-LVOL, P-BCRGR
891407	ANZA	E3	HRS	57.3	57.5	1.9	770	782	8	P-LVOL, P-BCRGR
891408	YECORA ROJO 87W	E4	HRS	64.2	63.4	4.2	930	880	3	Q-FYELD
891409	YECORA ROJO 87S	E5	HRS	63.4	62.5	3.3	955	899	2	
891410	YECORA ROJO	E6	HRS	63.5	63.1	5.0	950	925	2	
891411	TANORI 87W	E7	HRS	60.6	60.1	3.2	860	829	4	Q-LVOL, Q-S-BCRGR
891412	TANORI 87S	E8	HRS	61.7	61.0	3.2	885	842	4	Q-LVOL, Q-S-BCRGR
891413	TANORI 71	E9	HRS	62.5	61.5	2.9	915	853	4	Q-S-BCRGR
891414	PORTOLA 87W	E10	HRS	64.4	63.6	3.2	945	895	4	Q-FYELD, Q-S-BCRGR
891415	PORTOLA 87S	E11	HRS	63.1	62.4	3.0	935	892	3	
891416	PORTOLA	E12	HRS	62.4	61.2	2.9	990	916	4	Q-S-BCRGR
891417	PHOENIX	E19	HWS	62.6	62.3	2.4	990	971	3	

COMMENTS: This nursery averaged 11% flour protein. Comparisons were made among the three varieties in each group. Generally, very little difference was found in milling properties within each group. Loaf volume differences showed more variability. Bread loaf volumes, except for four cultivars, was equal to or exceeded that expected for their flour protein level. See plot of loaf volume vs flour protein and "Remarks".

LOAF VOLUME VS PROTEIN



NURSCO 52

DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891418	BC60//CALIDAD/ANZA	9012 E3	SWS	64.2	70.1	0.39	80.9	12.2		58.8
891419	BC60//CALIDAD/ANZA	9012 E5	HWS	63.8	67.2	0.35	77.8	11.5		59.8
891420	TINCURRIN	9012/E6	SWS	62.8	68.4	0.38	78.3	12.7		58.5
891421	221/3/166//YR2/TINCURRIN//ANZA	9012/E8	SWS	63.1	69.7	0.35	80.8	11.9		58.7
891422	221/3/166//YR2/TINCURRIN//ANZA	9012/E9	SWS	62.7	68.3	0.34	79.8	11.5		58.1
891423	YECORA ROJO	9012/E17	HRS	63.5	70.6	0.36	81.4	14.3		62.8
891424	YOLO	9012/E18	HRS	65.8	69.5	0.34	83.1	12.7		61.6
891425	PHOENIX	9012/E19	HWS	63.9	71.5	0.40	83.9	13.0		61.8
891426	KLASIC	9012/E20	HWS	64.7	73.9	0.37	87.9	13.1		63.1
891427	BC60//CALIDAD/ANZA	9012/E22	SWS	63.2	69.0	0.36	79.1	11.9		62.3
891428	221/3/166//YR2/TINCURRIN//ANZA	9012/E23	SWS	63.5	70.9	0.36	82.1	10.7		57.4
891429	ALONDRA'S	9012/E24	HWS	63.2	65.9	0.39	74.6	13.2		63.6
891430	OASIS	9012/E50	HWS	62.9	70.4	0.33	84.3	12.7		61.9
891431	YECORA 70	9012/E51	HWS	63.2	70.7	0.34	84.3	13.2		63.3
891432	LERMA BLANCO 70	9012/E52	HWS	63.6	70.9	0.38	82.0	12.7		60.3
891433	SIETE CERROS 66	9012/E53	HWS	61.3	64.1	0.97	43.3	11.0		64.2

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 52

DAVIS, CA

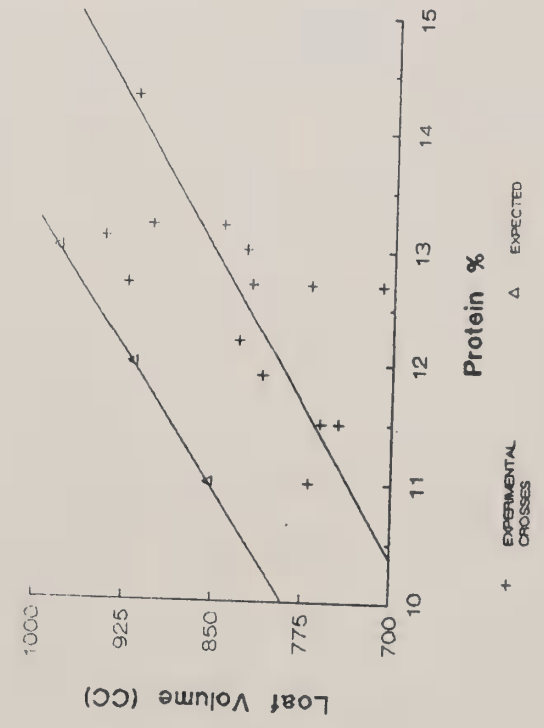
C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL
891418	BC60//CALIDAD/ANZA	9012 E3	SWS	8.19	8.21	6M	59.2	59.0	3.0	830
891419	BC60//CALIDAD/ANZA	9012 E5	HWS			2M	59.5	60.0	1.5	760
891420	TINCURRIN	9012/E6	SWS	8.29	8.36	3M	59.4	58.7	2.1	820
891421	221/3/166//YR2/TINCURRIN//ANZA	9012/E8	SWS	8.76	8.75	2M	58.8	58.9	1.9	810
891422	221/3/166//YR2/TINCURRIN//ANZA	9012/E9	SWS	8.24	8.18	3M	57.8	58.3	1.8	745
891423	YECORA ROJO	9012/E17	HRS			5H	65.3	63.0	3.4	920
891424	YOLO	9012/E18	HRS			2H	62.5	61.8	2.1	710
891425	PHOENIX	9012/E19	HWS			4H	63.0	62.0	2.5	825
891426	KLASIC	9012/E20	HWS			5H	64.4	63.3	3.7	945
891427	BC60//CALIDAD/ANZA	9012/E22	SWS	8.45	8.44	2M	62.4	62.5	1.9	810
891428	221/3/166//YR2/TINCURRIN//ANZA	9012/E23	SWS	8.21	8.07	2M	56.3	57.6	1.8	695
891429	ALONDRA'S	9012/E24	HWS			5H	65.0	63.8	3.4	845
891430	OASIS	9012/E50	HWS			5H	63.3	62.6	3.4	925
891431	YECORA 70	9012/E51	HWS			5H	65.2	64.0	3.5	905
891432	LERMA BLANCO 70	9012/E52	HWS			2H	61.2	60.5	2.0	770
891433	SIETE CERROS 66	9012/E53	HWS			4H	63.4	64.4	2.7	770

NURSCO 52		DAVIS, CA		C.O. QUALSET	
LABNUM	VARIETY	IDNO	CLASS	LVOLC 4/	BCRGR RMKS
891418	BC60//CALIDAD//ANZA	9012 E3	SWS	818	4 Q-MSCOR,P-COD1, Q-S-BCRGR
891419	BC60//CALIDAD//ANZA	9012 E5	HWS	791	9 P-FYELD,P-MTIME,P-BCRGR
891420	TINCURRIN	9012/E6	SWS	778	8 P-FYELD,P-COD1,P-MTIME,P-BCRGR
891421	221/3/166//YR2/TINCURRIN//ANZA	9012/E8	SWS	816	7 Q-FYELD,P-MTIME,P-Q-BCRGR
891422	221/3/166//YR2/TINCURRIN//ANZA	9012/E9	SWS	775	7 P-FYELD,P-COD1,P-MTIME,P-Q-BCRGR
891423	YECORA ROJO	9012/E17	HRS	777	4
891424	YOLO	9012/E18	HRS	667	5
891425	PHOENIX	9012/E19	HWS	763	4
891426	KLASIC	9012/E20	HWS	877	3
891427	BC60//CALIDAD//ANZA	9012/E22	SWS	816	5 P-FYELD,Q-COD1,P-MTIME,Q-BCRGR
891428	221/3/166//YR2/TINCURRIN//ANZA	9012/E23	SWS	773	9 P-COD1,P-MTIME,P-BCRGR
891429	ALONDRA'S	9012/E24	HWS	771	7 VP-FYELD,P-Q-BCRGR
891430	OASIS	9012/E50	HWS	882	5 Q-BCRGR
891431	YECORA 70	9012/E51	HWS	831	3
891432	LERMA BLANCO 70	9012/E52	HWS	727	8 P-MTIME,P-LVOL,P-BCRGR
891433	SIETE CERROS 66	9012/E53	HWS	832	4 VP-FYELD

COMMENTS: This nursery averaged 12% flour protein content. A few selections had poor or questionable flour yield. Cookie spread was rather poor for most SWS selections. Loaf volume of all hard wheat selections and check varieties was not up to that expected for their flour protein level. A loaf volume of 920 cc would be considered normal corrected to 12% flour protein content. Bread crumb grain was undoubtedly influenced by poorer than normal loaf volume. Comparisons between the selections and check varieties may not be too reliable. Siete Cerros 66 had very poor milling properties (low flour yield and high ash content) which resulted in a very poor milling score due to being smutted. See plot of loaf volume vs flour protein and "Remarks".

LOAF VOLUME VS PROTEIN



NURSCO 53

DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891434	NURI'S'/ANZA	9012/E1	HWS	63.7	73.4	0.33	91.8	13.6		63.4
891435	RULOFEN/ANZA2	9012/E2	HWS	63.0	70.0	0.32	88.8	11.8		59.5
891436	PAVON 76	9012/E4	HWS	63.7	69.6	0.31	88.9	11.9		63.8
891437	DGA/BJY'S'	9012/E12	HWS	62.7	72.3	0.32	91.2	12.1		64.4
891438	PHOENIX	9012/E19	HWS	64.2	72.5	0.30	92.4	11.4		65.0
891439	KLASIC	9012/E20	HWS	64.6	73.8	0.29	94.3	12.9		64.5
891440	KEA'S'/TOW'S'	9012/E25	HWS	64.2	69.2	0.31	88.5	11.8		66.2
891441	BB/3/CNO//INIA/4/SOTY/3/SPRW'S'/PVN'S'	9012/E26	HWS	64.7	69.8	0.32	88.5	12.0		65.1
891442	JUSTIN//SC66/YECORA ROJO	9012/E28	HWS	63.2	71.8	0.29	92.2	13.1		64.3
891443	NO66/5/BB/4/CNO/3/CHR'S'//7C/YR70	9012/E29	HWS	62.7	69.3	0.32	88.0	11.9		67.1
891444	TOB//7C/TORIM 73	9012/E34	HWS	63.4	70.2	0.34	87.9	12.3		66.7
891445	INIA'S'//ON/INIA/3/BB//JUP73	9012/E36	HWS	64.6	70.5	0.30	90.3	13.2		67.4
891446	BUC'S'/PVN'S'	9012/E48	HWS	64.2	69.2	0.32	88.0	11.6		65.4
891447	VEE'S'/TRAPP#1	9012/E49	HWS	63.5	68.8	0.36	85.5	12.2		67.1
891448	OASIS	9012/E50	HWS	62.7	72.4	0.29	93.0	12.6		61.6
891449	YECORA 70	9012/E51	HWS	63.3	72.4	0.35	89.8	12.8		63.6

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 53

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LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
891434	NURI'S'/ANZA	9012/E1	HWS	3H	64.2	62.6	2.9	975	876	2
891435	RULOFE/ANZA2	9012/E2	HWS	1H	60.0	60.2	1.7	725	737	8
891436	PAVON 76	9012/E4	HWS	4H	63.4	63.5	3.0	900	906	4
891437	DGA/BJY'S'	9012/E12	HWS	5H	65.7	65.6	3.3	950	944	4
891438	PHOENIX	9012/E19	HWS	3H	64.6	65.2	2.5	900	937	4
891439	KLASIC									
891440	KEA'S'/TOW'S'	9012/E20	HWS	5H	66.1	65.2	4.7	1000	944	4
891441	BB/3/CNO//INIA/4/SOTY/3/SPRW'S'/PVN'S'	9012/E25	HWS	4H	66.7	66.9	3.5	925	937	4
891442	JUSTIN//SC66/YECORA ROJO	9012/E26	HWS	5H	65.8	65.8	3.9	910	910	3
891443	NO66/5/BB/4/CNO/3/CHR'S'//7C/YR70	9012/E28	HWS	4H	66.1	65.0	3.7	995	927	2
		9012/E29	HWS	5H	67.7	67.8	5.0	885	891	4
891444	TOB//7C/TORIM 73	9012/E34	HWS	7H	68.7	68.4	6.2	915	896	4
891445	INTA'S'//ON/INIA/3/BB//JUP73	9012/E36	HWS	5H	69.8	68.6	3.2	855	821	3
891446	BUC'S'/PVN'S'	9012/E48	HWS	5H	67.2	67.6	3.3	980	1005	3
891447	VEE'S'/TRAPP#1	9012/E49	HWS	6H	68.5	68.3	4.3	1000	988	3
891448	OASIS	9012/E50	HWS	4H	63.4	62.8	3.6	1015	978	2
891449	YECORA 70	9012/E51	HWS	5H	65.6	64.8	3.6	1010	960	3

NURSCO 53

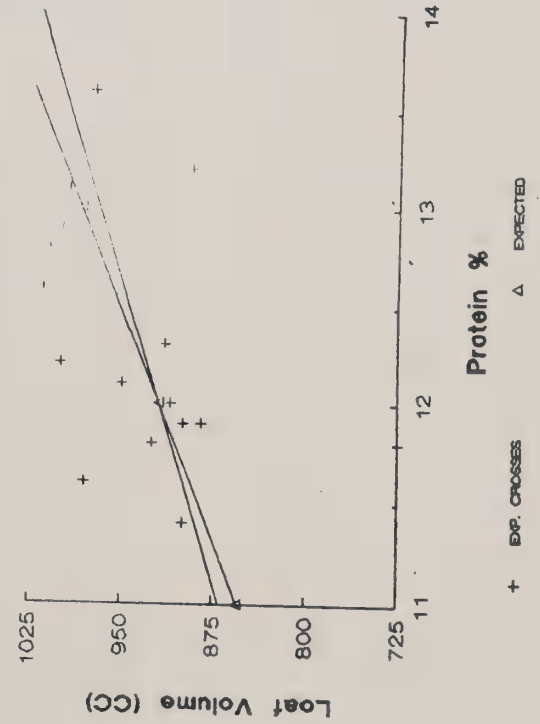
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LABNUM	VARIETY	IDNO	CLASS	RMKS
891434	NURI'S'/ANZA	9012/E1	HWS	P-LVOL
891435	RULOGEN/ANZA2	9012/E2	HWS	Q-FYELD, P-MTIME, VP-LVOL, P-BCRGR
891436	PAVON 76	9012/E4	HWS	P-FYELD, Q-LVOL
891437	DGA/BJY'S'	9012/E12	HWS	Q-S-BCRGR
891438	PHOENIX	9012/E19	HWS	
891439	KLASIC	9012/E20	HWS	
891440	KEA'S'/TON'S'	9012/E25	HWS	P-FYELD, Q-S-BCRGR
891441	BB/3/CNO//INIA/4/SOTY/3/SPRW'S'/PVN'S'	9012/E26	HWS	P-FYELD, Q-LVOL
891442	JUSTIN//SC66/YECORA ROJO	9012/E28	HWS	
891443	NO66/5/BB/4/CNO/3/CHR'S'//7C/YR70	9012/E29	HWS	P-FYELD, Q-LVOL, Q-S-BCRGR
891444	TOB//7C/TORIN 73	9012/E34	HWS	Q-FYELD Too long M-TIME, Q-LVOL, Q-S-BCRGR
891445	INIA'S'//ON/INIA/3/BB//JUP73	9012/E36	HWS	Q-FYELD, P-LVOL
891446	BUC'S'/PVN'S'	9012/E48	HWS	P-FYELD
891447	VEE'S'/TRAPP#1	9012/E49	HWS	P-FYELD
891448	OASIS	9012/E50	HWS	
891449	YECORA 70	9012/E51	HWS	

COMMENTS: This nursery averaged 12% flour protein. Several selections had poor to questionable flour yields. Loaf volumes of most selections were near or above that expected for their flour protein content. Bread crumb grain scores were generally satisfactory for most selections. See "Remarks" and the plot of loaf volume vs flour protein.

LOAF VOLUME VS PROTEIN



NURSCO 55

DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
891505 ANZA 87W		9003/E1	HRS	64.0	73.4	0.28	94.4	11.6	61.3	3M
891506 WHITE ANZA 87W		9003/E2	HWS	63.1	72.8	0.30	92.8	11.8	59.5	3M
891507 ANZA 87S		9003/E3	HRS	62.8	73.3	0.25	95.9	10.7	61.1	3M
891508 WHITE ANZA 87S		9003/E4	HWS	63.6	73.8	0.30	93.9	10.9	59.0	2M
891509 ANZA		9003/E5	HRS	64.1	73.0	0.30	92.9	11.2	59.8	2M
891510 YECORA ROJO 87W		9003/E6	HRS	64.1	71.2	0.32	90.1	12.0	65.2	5H
891511 WHITE YECORA ROJO 87W		9003/E7	HWS	63.7	71.8	0.36	88.7	12.2	64.9	5H
891512 YECORA ROJO 87S		9003/E8	HRS	61.1	70.9	0.32	89.8	13.0	65.8	5H
891513 YECORA ROJO		9003/E9	HRS	61.9	71.4	0.33	89.8	12.8	63.7	5H
891514 TANORI 87W		9003/E10	HRS	63.8	71.8	0.27	93.3	12.3	63.1	3H
891515 WHITE TANORI 87W		9003/E11	HWS	63.7	72.5	0.28	93.5	13.6	61.4	2H
891516 TANORI 87S		9003/E12	HRS	63.1	71.8	0.26	93.9	11.9	62.5	3H
891517 WHITE TANORI 87S		9003/E13	HWS	61.6	70.4	0.30	90.3	12.2	62.2	3H
891518 TANORI 71		9003/E14	HRS	62.2	71.5	0.30	91.4	12.6	62.6	3H
891519 PORTOLA 87W		9003/E15	HRS	63.5	70.5	0.28	91.4	12.5	64.4	3H
891520 PORTOLA 87S		9003/E16	HRS	63.6	70.8	0.28	91.7	12.4	64.4	3H
891521 PORTOLA		9003/E17	HRS	63.8	71.4	0.27	92.9	12.6	64.4	3H
891522 PHOENIX		9003/E25	HWS	63.7	73.0	0.28	94.1	11.9	62.1	3H

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

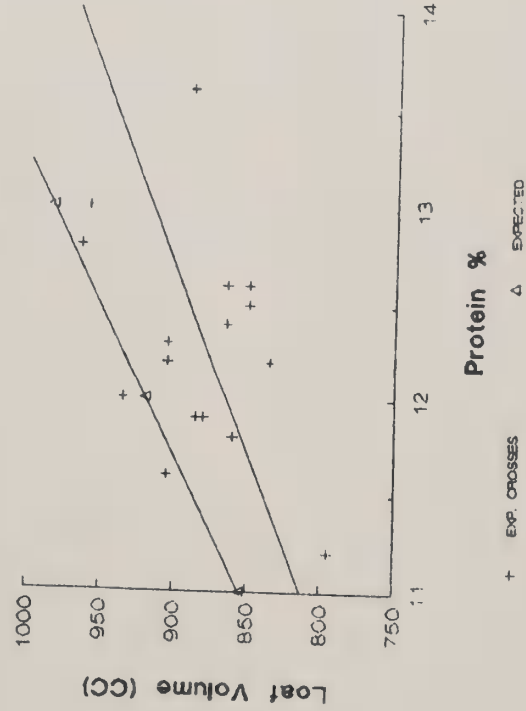
NURSCO 55

DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	BABS	1/		BABSC	MTIME	LVOL	LVOLC	BCRGR	RMKS
					3/	4/						
891505 ANZA 87W		9003/E1	HRS	60.6	61.0	905		1.9	930		6	Q-BCRGR
891506 WHITE ANZA 87W		9003/E2	HWS	59.0	59.2	860		2.0	872		6	P-LVOL, Q-BCRGR
891507 ANZA 87S		9003/E3	HRS	59.5	60.8	780		1.9	861		8	P-LVOL, P-BCRGR
891508 WHITE ANZA 87S		9003/E4	HWS	57.6	58.7	755		1.8	823		9	P-LVOL, P-BCRGR
891509 ANZA		9003/E5	HRS	58.7	59.5	795		1.8	845		8	P-LVOL, P-BCRGR
891510 YECORA ROJO 87W		9003/E6	HRS	65.9	65.9	935		3.5	935		3	
891511 WHITE YECORA ROJO 87W		9003/E7	HWS	66.3	66.1	905		4.3	893		3	Q-LVOL
891512 YECORA ROJO 87S		9003/E8	HRS	68.0	67.0	960		3.4	978		3	Q-LVOL
891513 YECORA ROJO		9003/E9	HRS	65.7	64.9	965		4.2	915		4	Q-S-BCRGR
891514 TANORI 87W		9003/E10	HRS	64.1	63.8	915		2.9	896		4	Q-LVOL, Q-S-BCRGR
891515 WHITE TANORI 87W		9003/E11	HWS	62.7	61.1	890		2.1	791		4	P-MTIME, P-LVOL, Q-S-BCRGR
891516 TANORI 87S		9003/E12	HRS	62.6	62.7	880		3.2	886		3	Q-LVOL
891517 WHITE TANORI 87S		9003/E13	HWS	62.6	62.4	835		3.2	823		5	Q-FYELD, P-LVOL, Q-BCRGR
891518 TANORI 71		9003/E14	HRS	63.4	62.8	850		2.5	813		3	Q-MTIME, P-LVOL
891519 PORTOLA 87W		9003/E15	HRS	65.1	64.6	850		2.5	819		5	P-LVOL, Q-BCRGR
891520 PORTOLA 87S		9003/E16	HRS	65.0	64.6	865		2.8	840		4	P-LVOL, Q-S-BCRGR
891521 PORTOLA		9003/E17	HRS	65.2	64.6	865		2.6	828		4	P-LVOL, Q-S-BCRGR
891522 PHOENIX		9003/E25	HWS	62.2	62.3	885		2.4	891		4	Q-MTIME, Q-LVOL

LOAF VOLUME VS PROTEIN



COMMENTS: This nursery averaged 12% flour protein. Comparisons were made among each of the cultivars in each group. Generally there was little difference in milling properties within each group. Loaf volumes varied considerably within each group except for Yecora Rojo. Bread crumb grain varied a little in each group with most differences found in the Anza group. The cultivar designated 87W (HRS) had larger loaf volumes in all of the groups, except for Portola, which had only minor differences. Very few lines had loaf volumes expected for their flour protein levels. See plot of loaf volume vs flour protein. See "Remarks" for other deficiencies.

NURSCO 56

PENDLETON, DE W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891523 MCKAY		89SPHWE 1	HRS	63.0	70.7	0.35	83.6	12.0		62.4
891524 BORAH		89SPHWE 2	HRS	62.8	69.9	0.31	84.3	14.1		61.3
891525 KLASIC		89SPHWE 3	HWS	64.7	70.3	0.33	84.3	12.7		64.8
891526 WADUAL		89SPHWE 4	SWS	63.0	72.0	0.35	83.3	10.8		62.2
891527 OR484013		89SPHWE 5	HWS	62.8	71.6	0.41	83.4	12.1		62.8
891528 .		89SPHWE 7	HWS	64.9	72.6	0.39	85.8	12.5		61.1
891529 .		89SPHWE 8	HWS	63.3	70.2	0.41	81.0	13.3		60.4
891530 .		89SPHWE 9	HWS	63.8	71.5	0.41	83.8	12.8		63.7
891531 .		89SPHWE 10	HWS	61.7	70.6	0.47	79.2	12.5		62.2
891532 .		89SPHWE 11	HWS	63.3	72.3	0.39	85.8	11.7		64.6
891533 .		89SPHWE 12	HWS	64.7	74.9	0.38	89.0	12.6		62.1
891534 .		89SPHWE 13	HWS	63.0	71.9	0.36	86.2	11.7		62.1
891535 .		89SPHWE 14	HWS	65.7	73.8	0.35	90.1	11.5		62.3
891536 .		89SPHWE 16	HWS	62.6	71.6	0.38	84.7	13.3		63.9

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 56

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
891523 MCKAY		89SPHWE 1	HRS	3H	62.6	62.6	2.5	810	810	2
891524 BORAH		89SPHWE 2	HRS	2H	63.6	61.5	1.9	900	770	3
891525 KLASIC		89SPHWE 3	HWS	5H	65.7	65.0	4.0	980	937	2
891526 WADUAL		89SPHWE 4	SWS	3M	61.2	62.4	3.0	920	992	2
891527 OR484013		89SPHWE 5	HWS	4H	63.1	63.0	3.3	900	894	5
891528 .		89SPHWE 7	HWS	3H	61.8	61.3	2.8	865	834	3
891529 .		89SPHWE 8	HWS	3H	61.9	60.6	2.6	850	769	4
891530 .		89SPHWE 9	HWS	3H	65.7	64.9	2.9	930	880	2
891531 .		89SPHWE 10	HWS	2H	62.9	62.4	2.0	830	799	8
891532 .		89SPHWE 11	HWS	4H	65.5	65.8	3.4	800	819	6
891533 .		89SPHWE 12	HWS	3H	63.9	63.3	2.9	870	833	4
891534 .		89SPHWE 13	HWS	4H	63.0	63.3	3.5	900	919	4
891535 .		89SPHWE 14	HWS	3H	63.0	63.5	3.3	900	931	3
891536 .		89SPHWE 16	HWS	4H	66.4	65.1	3.9	850	769	5

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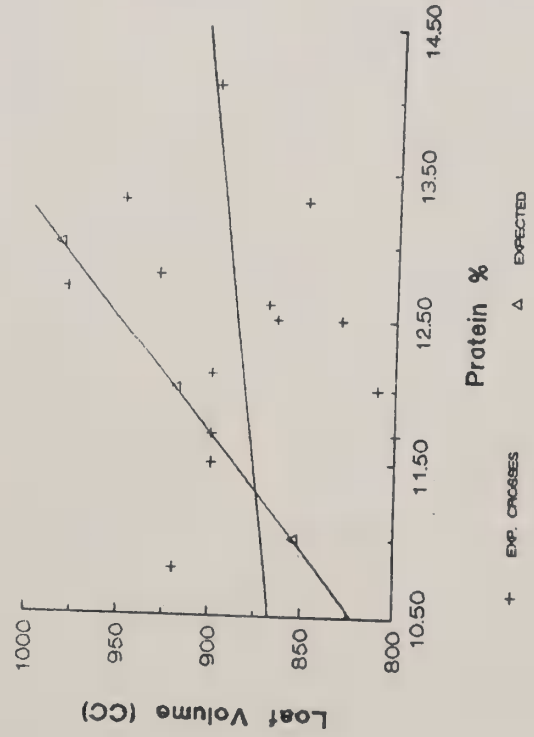
PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	RMKS
891523	MCKAY	89SPHWE 1	HRS	
891524	BORAH	89SPHWE 2	HRS	
891525	KLASIC	89SPHWE 3	HWS	
891526	WADUAL	89SPHWE 4	SWS	
891527	OR484013	89SPHWE 5	HWS	Q-LVOL, Q-BCRGR
891528	.	89SPHWE 7	HWS	P-LVOL
891529	.	89SPHWE 8	HWS	Q-FYELD, Q-MSCOR, VP-LVOL, Q-S-BCRGR
891530	.	89SPHWE 9	HWS	P-LVOL
891531	.	89SPHWE 10	HWS	P-FASH, P-MSCOR, P-MTIME, P-LVOL, P-BCRGR
891532	.	89SPHWE 11	HWS	P-LVOL, Q-BCRGR
891533	.	89SPHWE 12	HWS	Excellent FYELD, P-LVOL, Q-S-BCRGR
891534	.	89SPHWE 13	HWS	Q-S-BCRGR
891535	.	89SPHWE 14	HWS	Very good FYELD
891536	.	89SPHWE 16	HWS	VP-LVOL, Q-BCRGR

COMMENTS: This nursery averaged 12% flour protein. Milling properties for most selections was satisfactory. Loaf volumes of several selections were generally quite poor for their flour protein level. A considerable range was found in loaf volume (810 to 980 cc). McKay and Borah (checks) did not have loaf volumes expected for their flour protein content. Bread crumb grains were somewhat variable. See plot of loaf volume vs. flour protein and "Remarks".

LOAF VOLUME VS PROTEIN



NURSCO 57

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891537 OWENS		89SPDPE 1	SWS	61.5	69.7	0.37	80.8	10.6		55.9
891538 TWIN		89SPDPE 2	SWS	58.9	70.7	0.42	78.5	11.4		56.7
891539 DIRKWIN		89SPDPE 3	SWS	59.0	72.3	0.43	80.6	11.7		54.5
891540 WADUAL		89SPDPE 4	SWS	61.3	70.1	0.35	82.5	12.2		59.7
891541 MCKAY		89SPDPE 5	HRS	61.6	70.0	0.37	82.0	12.2		61.9
891542 BORAH										
891543 WESTBRED		89SPDPE 6	HRS	62.2	70.9	0.33	84.3	12.8		61.5
891544 ORS 8501		89SPDPE 7	HRS	62.8	70.4	0.39	81.8	13.0		61.0
891545 ORS 8427		89SPDPE 8	SWS	63.5	71.6	0.34	85.4	11.5		57.4
891546 OR487503		89SPDPE 9	SWS	61.9	71.3	0.38	81.6	10.9		57.7
		89SPDPE 10	HWS	60.5	64.2	0.42	70.3	13.1		57.4
891547 OR487570										
891548 OR487316		89SPDPE 11	SWS	60.0	70.5	0.45	76.9	12.1		55.6
891549 TONICHI		89SPDPE 12	SWS	61.1	68.1	0.40	76.0	11.3		54.8
891550 .		89SPDPE 13	SWS	60.3	69.0	0.40	77.7	11.4		54.3
		89SPDPE 14	SWS	61.6	70.8	0.35	83.7	11.1		55.3

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 57

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
891537 OWENS		89SPDPE 1	SWS	2	54.7	56.1	1.7	820	904	6
891538 TWIN		89SPDPE 2	SWS	2	56.3	56.9	1.4	720	756	7
891539 DIRKWIN		89SPDPE 3	SWS	2	54.4	54.7	1.1	700	718	9
891540 WADUAL		89SPDPE 4	SWS	2	59.1	58.9	3.0	1035	1023	3
891541 MCKAY		89SPDPE 5	HRS	3	61.3	61.1	3.2	990	978	4
891542 BORAH		89SPDPE 6	HRS	2	61.5	60.7	2.0	950	900	4
891543 WESTBRED		89SPDPE 7	HRS	3	63.2	62.2	2.6	1015	953	2
891544 ORS 8501		89SPDPE 8	SWS	2	57.1	57.6	1.5	825	855	8
891545 ORS 8427		89SPDPE 9	SWS	4	56.8	57.9	3.1	995	1061	3
891546 OR487503		89SPDPE 10	HWS	4	57.7	56.6	3.0	1085	1017	2
891547 OR487570		89SPDPE 11	SWS	3	55.9	55.8	2.4	955	949	4
891548 OR487316		89SPDPE 12	SWS	2	54.3	55.0	1.7	860	902	6
891549 TONICHI		89SPDPE 13	SWS	3	53.9	54.5	2.2	840	876	7
891550 .		89SPDPE 14	SWS	1	54.6	55.5	1.4	780	834	8

NURSCO 57

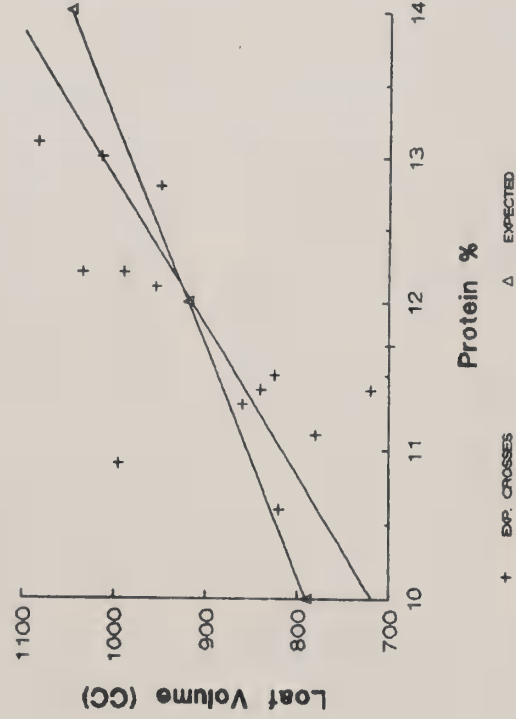
PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	WTIN	NOSCOR	RMKS
891537 OWENS		89SPDPE 1	SWS	9.24	9.08	366	74	
891538 TWIN		89SPDPE 2	SWS	8.75	8.68	364	71	
891539 DIRKWIN		89SPDPE 3	SWS	8.48	8.44	371	70	
891540 WADUAL		89SPDPE 4	SWS	8.30	8.32	346	70	
891541 MCKAY		89SPDPE 5	HRS	7.84	7.85	347	70	
891542 BORAH		89SPDPE 6	HRS	7.75	7.81	336	68	
891543 WESTBRED		89SPDPE 7	HRS	7.56	7.64	354	72	P-COD1
891544 ORS 8501		89SPDPE 8	SWS	8.77	8.72	355	72	P-MTIME, P-LVOL, P-BCRGR
891545 ORS 8427		89SPDPE 9	SWS	8.36	8.24	349	73	P-COD1
891546 OR487503		89SPDPE 10	HWS	8.45	8.54	342	70	VP-FYELD
891547 OR487570		89SPDPE 11	SWS	8.52	8.54	348	71	P-FASH, P-MSCOR, Q-S-BCRGR
891548 OR487316		89SPDPE 12	SWS	8.57	8.50	348	72	P-FYELD, P-MSCOR, P-MTIME, Q-LVOL, Q-BCRGR
891549 TONICHI		89SPDPE 13	SWS	8.44	8.37	358	72	Q-FYELD, P-MSCOR, P-LVOL, P-BCRGR, Q-COD1
891550		89SPDPE 14	SWS	8.90	8.80	359	71	P-MTIME, P-LVOL, P-BCRGR

COMMENTS: This nursery averaged 12% flour protein. Most of the dual purpose selections in general had several quality deficiencies. ORS8427 (89SPDPE 9) had good bread loaf volume and crumb grain, however, its cookie spread was rather poor. OR487503 (89SPDPE 10) was classified as HWS. It had a very poor flour yield, but good bread loaf volume and crumb grain. The cookie diameter was reasonably satisfactory. See "Remarks" for deficiencies of the other dual purpose lines.

LOAF VOLUME VS PROTEIN



NURSCO 59

W.K. POPE

CULDESAC, ID

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891563	LOUVRIN24/53-7//WESTON	6-1	HRW	64.8	71.0	0.31	90.4	12.6		59.8
891564	FENN 20-3	6-2	HRW	63.2	69.9	0.26	91.9	11.7		59.2
891565	WESTON/LOUVRIN-24 SEL4	6-3	HRW	64.0	69.3	0.34	87.1	11.1		57.1
891566	12/18/HILL201-1	6-4	HRW	64.4	70.3	0.32	89.2	10.1		54.1
891567	FENN 1-6	6-5	HRW	63.6	67.8	0.27	89.2	13.7		59.6
891568	INC9-1	6-6	HRW	63.2	72.8	0.33	91.2	11.0		57.0
891569	INC9-2	6-7	HRW	63.6	72.8	0.32	91.8	10.8		57.1
891570	INC9-3	6-8	HRW	63.2	73.5	0.34	91.5	10.8		56.4
891571	FENN 20-2	6-9	HRW	65.2	71.0	0.26	93.0	10.2		58.1
891572	WESTON	10-0	HRW	65.2	72.8	0.26	94.9	12.0		60.8
891573	FR-1//((A-5006))/ARK	10-1	HRW	62.0	70.6	0.26	92.6	11.1		58.2
891574	WESTON -POST RAIN-	10-2	HRW	63.6	73.6	0.25	96.3	12.0		57.3
891575	INC9	10-3	HRW	59.2	73.6	0.26	95.8	11.1		57.7
891576	FENN 20-1	10-4	HRW	59.6	62.5	0.25	84.7	12.5		59.6

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 59

CULDESAC, ID

W.K. POPE

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
891563	LOUVRIN24/53-7//WESTON	6-1	HRW	3M	61.6	60.0	2.5	895	796	6
891564	FENN 20-3	6-2	HRW	3M	60.1	59.4	2.1	830	787	7
891565	WESTON/LOUVRIN-24 SEL4	6-3	HRW	2M	57.4	57.3	1.9	650	644	8
891566	12/18/HILL201-1	6-4	HRW	3L	53.4	54.3	2.1	685	741	7
891567	FENN 1-6	6-5	HRW	1H	62.5	59.8	1.4	925	758	5
891568	INC9-1	6-6	HRW	2H	57.2	57.2	2.1	755	755	8
891569	INC9-2	6-7	HRW	2H	57.1	57.3	2.2	750	762	8
891570	INC9-3	6-8	HRW	2H	57.4	57.6	2.2	645	657	8
891571	FENN 20-2	6-9	HRW	3M	57.5	58.3	2.3	675	725	8
891572	WESTON	10-0	HRW	2H	62.0	61.0	2.4	840	778	5
891573	FR-1//((A-5006))/ARK	10-1	HRW	6M	58.5	58.4	3.5	780	774	6
891574	WESTON -POST RAIN-	10-2	HRW	2H	58.5	57.5	1.9	940	874	5
891575	INC9	10-3	HRW	2M	58.0	57.9	1.9	815	809	7
891576	FENN 20-1	10-4	HRW	2H	61.3	59.8	2.2	925	832	4

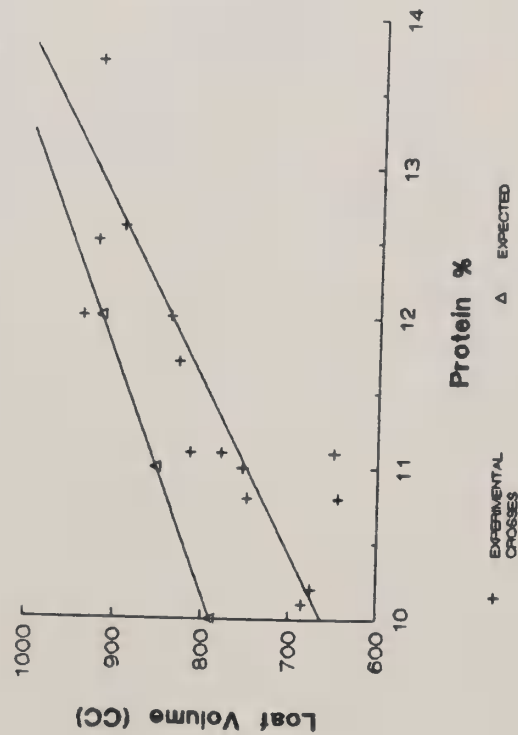
NURSCO 59

W.K. POPE

CULDESAC, ID

LABNUM	VARIETY	IDNO	CLASS	RMKS
891563	LOUVRI24/53-7//WESTON	6-1	HRW	
891564	FENN 20-3	6-2	HRW	Q-FYELD, Q-MTIME, Q-BCRGR
891565	WESTON/LOUVRI-24 SEL4	6-3	HRW	Q-FYELD, Q-MABSC, P-MTIME, P-LVOL, P-BCRGR
891566	12/18/HILL201-1	6-4	HRW	Q-MSCOR, Q-FPROT, P-MABSC, Q-MTYPE, P-BABSC, Q-MTIME
891567	FENN 1-6	6-5	HRW	Q-FYELD, Q-MSCOR, P-MTIME
891568	INC9-1	6-6	HRW	Q-MABSC, Q-MTIME, P-BCRGR
891569	INC9-2	6-7	HRW	Q-FPROT, Q-MABSC, Q-MTIME, P-BCRGR
891570	INC9-3	6-8	HRW	Q-FPROT, Q-MABSC, Q-MTIME, P-LVOL, P-BCRGR
891571	FENN 20-2	6-9	HRW	Q-FPROT
891572	WESTON	10-0	HRW	
891573	FR-1/(A-5006)/ARK	10-1	HRW	
891574	WESTON -POST RAIN-	10-2	HRW	Q-MABSC, P-MTIME
891575	INC9	10-3	HRW	Q-MABSC, P-MTIME, Q-BCRGR
891576	FENN 20-1	10-4	HRW	P-FYELD, P-MSCOR, Q-MTIME

LOAF VOLUME VS PROTEIN



COMMENTS: Growing conditions for this nursery may have been out of the ordinary as indicated by Weston's performance. Most selections had several defects, but 891563 and 891573 were noticeably better than the other cultivars.

NURSCO 60

CULDESAC, ID

W.K. POPE

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891577 WESTON		11	HRW	66.0	71.2	0.28	92.1	8.5	75	58.3
891578 19/TD2		12	HRW	62.0	71.6	0.38	87.9	8.0	70	53.1
891579 W/L-24 SEL3		13	HRW	65.6	70.7	0.31	90.1	9.4	77	58.1
891580 W/L-24 SEL1		14	HRW	65.2	68.5	0.34	86.3	8.5	72	56.6
891581 W/L-24 SEL2		15	HRW	65.2	71.4	0.28	92.4	10.3	78	56.7
891582 W/L-24 SEL4		16	HRW	63.6	69.4	0.30	89.3	10.9	77	55.6
891583 HILL/PECK		17	SWW	64.0	71.9	0.26	96.4	7.1	42	53.2
891584 PECK//HILL		18	SWW	62.4	72.6	0.33	92.3	10.7	42	55.3
891585 12/18//HILL		19	SWW	63.6	71.9	0.29	93.9	10.7	42	56.1
891586 NUGAINES		20	SWW	63.6	71.2	0.26	95.5	7.7	31	52.6

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 60

CULDESAC, ID

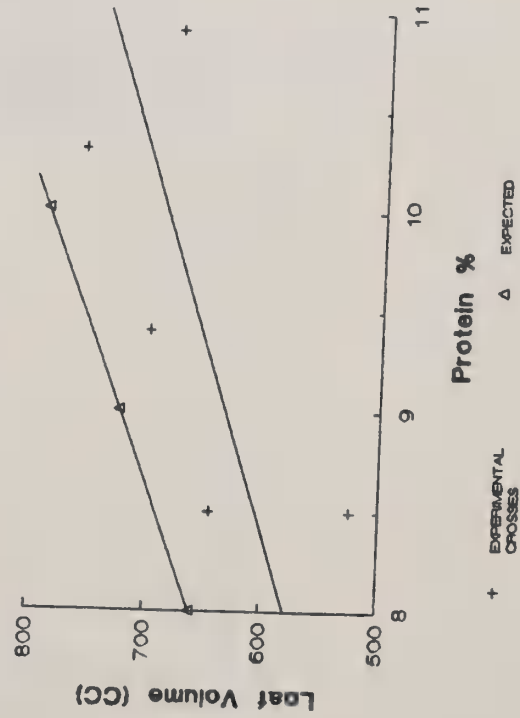
W.K. POPE

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL
891577 WESTON		11	HRW			4M	58.0	58.5	2.8	645
891578 19/TD2		12	HRW	8.44	8.33	6M				
891579 W/L-24 SEL3		13	HRW			5M	59.7	59.3	4.2	700
891580 W/L-24 SEL1		14	HRW			3M	58.3	58.8	3.4	525
891581 W/L-24 SEL2		15	HRW			6M	60.2	58.9	4.4	760
891582 W/L-24 SEL4		16	HRW			3M	57.7	55.8	3.2	680
891583 HILL/PECK		17	SWW	9.35	9.14	3L				
891584 PECK//HILL		18	SWW	9.12	9.31	5M				
891585 12/18//HILL		19	SWW	8.91	9.10	5M				
891586 NUGAINES		20	SWW	9.46	9.32	4L				

NURSCO 60

CULDESAC, ID					W.K. POPE	
LABNUM	VARIETY	IDNO	CLASS	LVOLC 4/	BCRGR	RMKS
891577	WESTON	11	HRW	676	9	
891578	19/TD2	12	HRW			Q-MSCOR, P-MABSC
891579	W/L-24 SEL3	13	HRW	675	9	P-LVOL, P-BCRGR
891580	W/L-24 SEL1	14	HRW	556	9	P-LVOL, P-BCRGR
891581	W/L-24 SEL2	15	HRW	679	8	P-LVOL, P-BCRGR, P-FYELD, Q-MSCOR
891582	W/L-24 SEL4	16	HRW	562	9	P-LVOL, P-BCRGR, Q-FYELD, Q-MSCOR
891583	HILL/PECK	17	SWW			
891584	PECK//HILL	18	SWW			
891585	12/18//HILL	19	SWW			
891586	NUGAINES	20	SWW			

LOAF VOLUME VS PROTEIN



COMMENTS: Due to low protein levels in the hard wheats, the results of this nursery may not be indicative of true performance. The low protein contributed to low mixograph and bake absorptions; which in turn affected loaf volume and crumb grain score. The soft wheats were all of acceptable quality.

NURSCO 61

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891587 MCKAY		89SPHRE 1	HRS	61.2	70.6	0.43	79.4	13.2		
891588 BORAH		89SPHRE 2	HRS	61.4	70.7	0.40	81.1	13.4		64.1
891589 WESTBRED		89SPHRE 3	HRS	61.7	67.9	0.44	74.7	14.6		63.2
891590 YECORA ROJO		89SPHRE 4	HRS	63.0	68.3	0.38	77.9	13.7		64.7
891591 SPILLMAN		89SPHRE 5	HRS	60.1	69.7	0.41	78.9	13.5		65.9
891592 OR 485010										65.9
891593 .		89SPHRE 6	HRS	62.3	69.7	0.40	79.9	12.9		
891594 .		89SPHRE 8	HRS	61.9	70.1	0.40	80.7	12.7		64.4
891595 .		89SPHRE 10	HRS	62.7	69.7	0.41	78.8	12.8		63.4
891596 .		89SPHRE 11	HRS	61.5	69.0	0.37	79.8	13.6		64.6
		89SPHRE 12	HRS	62.7	69.9	0.44	78.7	13.8		65.1
891597 .										67.0
891598 .		89SPHRE 13	HRS	62.6	70.8	0.43	80.9	13.0		
891599 .		89SPHRE 14	HRS	62.0	70.4	0.41	81.9	13.5		62.6
891600 .		89SPHRE 15	HRS	63.5	72.1	0.43	83.6	12.7		65.2
891601 .		89SPHRE 16	HRS	62.2	70.9	0.46	79.2	13.7		64.1
		89SPHRE 17	HRS	63.1	69.9	0.40	80.4	13.0		63.7
891602 .										65.2
891603 .		89SPHRE 18	HRS	61.9	68.4	0.45	75.7	13.3		
891604 .		89SPHRE 21	HRS	63.0	70.9	0.40	83.2	13.5		64.1
891605 .		89SPHRE 22	HRS	63.1	73.1	0.39	86.2	13.9		64.9
891606 .		89SPHRE 28	HRS	63.9	70.7	0.45	79.8	13.9		63.4
		89SPHRE 35	HRS	60.4	70.6	0.44	78.5	14.2		65.9
891607 .										63.1
		89SPHRE 37	HRS	62.9	70.0	0.49	76.4	14.2		67.6

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 13% protein.

4/ Observed values corrected to 13% protein.

5/ Particularly promising overall quality characteristics.
6/ Promising overall quality characteristics.

NURSCO 61

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
891587 MCKAY		89SPHRE 1	HRS	3H	65.5	65.3	2.8	985	973	2
891588 BORAH		89SPHRE 2	HRS	2H	64.3	63.9	2.1	960	935	3
891589 WESTBRED		89SPHRE 3	HRS	4H	67.5	65.9	3.5	1045	946	2
891590 YECORA ROJO		89SPHRE 4	HRS	5H	67.8	67.1	4.2	1020	977	2
891591 SPILLMAN		89SPHRE 5	HRS	3H	67.6	67.1	2.8	940	909	4
891592 OR 485010		89SPHRE 6	HRS	4H	65.5	65.6	3.2	930	936	4
891593 .		89SPHRE 8	HRS	4H	64.3	64.6	3.5	985	1003	2
891594 .		89SPHRE 10	HRS	3H	65.6	65.8	3.4	985	997	2
891595 .		89SPHRE 11	HRS	3H	66.9	66.3	3.1	1040	1003	4
891596 .		89SPHRE 12	HRS	6H	69.0	68.2	5.9	975	925	2
891597 .		89SPHRE 13	HRS	5H	63.8	63.8	4.3	950	950	2
891598 .		89SPHRE 14	HRS	3H	66.9	66.4	4.2	930	899	1
891599 .		89SPHRE 15	HRS	3H	65.5	65.8	3.2	895	914	2
891600 .		89SPHRE 16	HRS	3H	67.1	66.4	3.0	875	832	4
891601 .		89SPHRE 17	HRS	4H	67.9	67.9	3.3	950	950	3
891602 .		89SPHRE 18	HRS	2H	65.6	65.3	2.0	870	851	4
891603 .		89SPHRE 21	HRS	5H	67.1	66.6	5.5	850	819	4
891604 .		89SPHRE 22	HRS	5H	66.0	65.1	4.2	915	859	3
891605 .		89SPHRE 28	HRS	5H	68.5	67.6	5.4	870	814	4
891606 .		89SPHRE 35	HRS	4H	66.0	64.8	4.1	830	756	3
891607 .		89SPHRE 37	HRS	5H	70.0	68.8	7.6	870	796	2

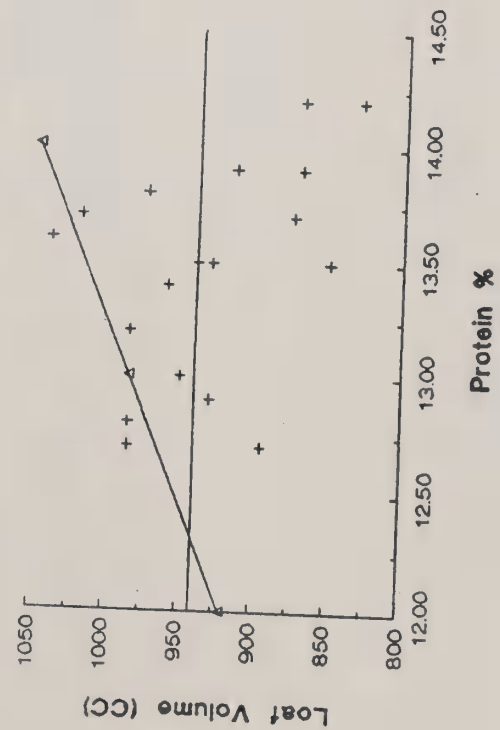
NURSCO 61

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	RMKS
891587 MCKAY		89SPHRE 1	HRS	
891588 BORAH		89SPHRE 2	HRS	
891589 WESTBRED		89SPHRE 3	HRS	
891590 YECORA ROJO		89SPHRE 4	HRS	
891591 SPILLMAN		89SPHRE 5	HRS	
891592 OR 485010		89SPHRE 6	HRS	P-LVOL, Q-S-BCRGR
891593 .		89SPHRE 8	HRS	
891594 .		89SPHRE 10	HRS	
891595 .		89SPHRE 11	HRS	Q-S-BCRGR
891596 .		89SPHRE 12	HRS	Q-FASH, Q-MSCOR, Long-MTIME, P-LVOL
891597 .		89SPHRE 13	HRS	Q-LVOL
891598 .		89SPHRE 14	HRS	P-LVOL, Excellent-BCRGR
891599 .		89SPHRE 15	HRS	P-LVOL
891600 .		89SPHRE 16	HRS	P-FASH, VP-LVOL, Q-S-BCRGR
891601 .		89SPHRE 17	HRS	Q-LVOL
891602 .		89SPHRE 18	HRS	P-FYELD, P-MSCOR, P-LVOL, Q-S-BCRGR
891603 .		89SPHRE 21	HRS	Long M-TIME, VP-LVOL, Q-S-BCRGR
891604 .		89SPHRE 22	HRS	P-LVOL
891605 .		89SPHRE 28	HRS	Q-FASH, VP-LVOL, Q-S-BCRGR
891606 .		89SPHRE 35	HRS	Q-FASH, Q-MSCOR, VP-LVOL
891607 .		89SPHRE 37	HRS	P-FASH, P-MSCOR, Too Long-MTIME, VP-LVOL

LOAF VOLUME VS PROTEIN

COMMENTS: This nursery averaged 13% flour protein. The major deficiency of this nursery was the loaf volume. Loaf volumes of most of the checks and selections was not up to that expected for their flour protein level. Bread crumb grains were generally satisfactory. Milling properties of most selections was satisfactory. See "Remarks" and plot of loaf volume vs flour protein.



100% ACTION IN 1980-81

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MURSCO 62

DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
891608	1/3/CNO//CAL/ANZA	9010/E1	HRS	64.7	71.6	0.31	91.1	12.3	62.1	3H
891609	TZPP/ANZA2	9010/E3	HRS	63.8	73.3	0.31	92.8	12.3	62.9	3H
891610	YOLO'S//YECORA ROJO	9010/E8	HRS	62.5	72.2	0.35	89.7	11.6	62.4	4H
891611	SERRA	9010/E10	HRS	63.5	73.1	0.33	91.6	11.7	62.3	6H
891612	JILGUERO/D6301//NAI60	9010/E11	HRS	65.1	70.8	0.30	90.7	12.8	64.6	5H
891613	YOLO	9010/E13	HRS	64.5	72.9	0.31	92.3	11.1	63.3	3M
891614	BAKER	9010/E15	HRS	63.8	71.5	0.31	91.0	13.1	63.6	5H
891615	YECORA ROJO	9010/E16	HRS	63.8	71.5	0.33	89.9	13.1	63.8	5H
891616	INIA NF600-7-3/166	9010/E17	HRS	64.9	72.2	0.29	92.7	12.9	64.0	4H
891617	ANZA/JUSTIN	9010/E19	HRS	64.9	73.2	0.31	92.7	12.8	63.2	2H
891618	TZPP/4/WTE3/3/NP63//1'S//3/S64/4/TZPP	9010/E20	HRS	64.3	74.1	0.34	92.1	12.9	66.0	4H
891619	CI017689/WAREDK74102-118NZ	9010/E23	HRS	63.5	73.4	0.35	90.9	11.9	65.0	4H
891620	NK00751/NDM000111 S82-02	9010/E24	HRS	63.3	73.4	0.30	93.4	11.7	64.8	5H
891621	NDM000751/NDM000111	9010/E25	HRS	62.9	73.7	0.42	87.4	11.8	64.1	4H
891622	T08//7C/TORIM73	9010/E29	HRS	63.9	71.8	0.34	89.6	12.5	65.8	6H
891623	BB'S'//SDY/GZ/4/GB/3/MAG27//166R	9010/E30	HRS	63.3	72.2	0.37	88.5	11.8	63.7	5H
891624	CLEO//INIA66/YECORAA ROJO	9010/E36	HRS	60.7	67.3	0.36	83.9	12.1	65.1	6H
891625	TADORNA//166/YECORA ROJO	9010/E38	HRS	60.6	68.9	0.30	88.7	12.5	64.3	4H
891626	TADORNA//166/YECORA ROJO	9010/E40	HRS	62.0	69.4	0.34	87.1	12.9	63.9	6H
891627	CLEO/3/1662//YECORA ROJO/YR'S'(R)	9010 E41	HRS	61.9	68.7	0.31	88.0	12.5	64.3	5H
891628	ANZA/3/GAINE//CAL//PBD771/TADORNA	9010 E42	HRS	60.6	69.5	0.32	88.3	12.5	64.4	5H
891629	LEN	9010/E43	HRS	61.8	70.6	0.35	87.9	13.2	66.1	5H
891630	STOA	9010/E45	HRS	61.9	69.9	0.37	86.1	13.4	66.5	5H
891631	ANZA/CAJEME 71	9010/E47	HRS	63.8	70.8	0.32	89.6	13.2	64.2	3H
891632	RED RIVER 68/YECORA ROJO	9010/E76	HRS	64.5	71.8	0.28	92.8	13.2	64.6	3H
891633	ANZA	9010/E80	HRS	64.3	71.3	0.29	91.7	10.8	62.6	3M

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

1. The following information was obtained from the records of the
 2. Bureau of the Census, Washington, D.C., on the subject of the
 3. above-named individual, and is being furnished to you for your information.

4. The following information was obtained from the records of the
 5. Bureau of the Census, Washington, D.C., on the subject of the
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13. The following information was obtained from the records of the
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34. The following information was obtained from the records of the
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 36. above-named individual, and is being furnished to you for your information.

37. The following information was obtained from the records of the
 38. Bureau of the Census, Washington, D.C., on the subject of the
 39. above-named individual, and is being furnished to you for your information.

40. The following information was obtained from the records of the
 41. Bureau of the Census, Washington, D.C., on the subject of the
 42. above-named individual, and is being furnished to you for your information.

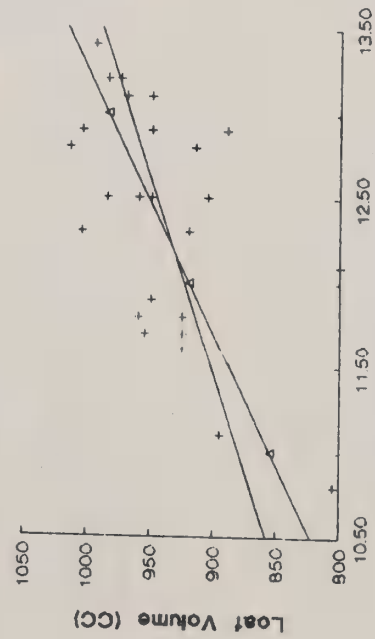
NURSCO 62

DAVIS, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
891608	1/3/CNO//CAL/ANZA	9010/E1	HRS	61.6	61.3	2.6	920	901	3	Q-LVOL
891609	TZPP/ANZA2	9010/E3	HRS	62.4	62.1	2.4	1005	986	2	Q-MTIME
891610	YOLO'S/YECORA ROJO	9010/E8	HRS	62.2	62.6	3.6	925	950	5	Q-BCRGR
891611	SERRA	9010/E10	HRS	62.2	62.5	5.8	925	944	4	Q-S-BCRGR
891612	JILGUERO/D6301//NA160	9010/E11	HRS	65.6	64.8	4.4	915	865	5	P-LVOL, Q-BCRGR
891613	YOLO	9010/E13	HRS	61.6	62.5	2.1	895	951	8	
891614	BAKER	9010/E15	HRS	64.9	63.8	4.2	950	882	2	Q-LVOL
891615	YECORA ROJO	9010/E16	HRS	65.1	64.0	4.0	970	902	2	
891616	INIA NF600-7-3/166	9010/E17	HRS	65.1	64.2	3.4	1005	949	5	Q-BCRGR
891617	ANZA/JUSTIN	9010/E19	HRS	63.7	62.9	2.3	1015	965	3	Q-MTIME
891618	TZPP/4/UTE3/3/NP63//1'S/3/S64/4/TZPP	9010/E20	HRS	67.1	66.2	4.0	950	894	5	Q-LVOL, Q-BCRGR
891619	C1017689/WAREDK74102-118N2	9010/E23	HRS	65.1	65.2	3.4	950	956	4	Q-S-BCRGR
891620	NK00751/NDM000111 S82-02	9010/E24	HRS	64.7	65.0	3.4	955	974	4	Q-S-BCRGR
891621	NDM000751/NDM000111	9010/E25	HRS	64.1	64.3	3.4	960	972	5	P-FASH, Q-MSCOR, Q-BCRGR
891622	T08//7C/TORIM73	9010/E29	HRS	66.5	66.0	5.1	960	929	4	Q-S-BCRGR
891623	BB'S1//SDY/GZ/4/GB/3/MAG27//166R	9010/E30	HRS	63.7	63.9	4.0	925	937	4	Q-S-BCRGR
891624	CLEO//INIA66/YECORAA ROJO	9010/E36	HRS	66.4	66.3	4.5	800	794	5	VP-FYELD, P-LVOL, Q-BCRGR
891625	TADORNA//166/YECORA ROJO	9010/E38	HRS	65.0	64.5	3.3	905	874	5	P-FYELD, P-LVOL, Q-BCRGR
891626	TADORNA//166/YECORA ROJO	9010/E40	HRS	65.0	64.1	5.0	890	834	3	P-FYELD, P-LVOL
891627	CLEO/3/1662/YECORA ROJO/YR'S'(R)	9010 E41	HRS	65.0	64.5	4.3	985	954	4	P-FYELD, Q-S-BCRGR
891628	ANZA/3/GAINE//CAL//PBD771/TADORNA	9010 E42	HRS	65.1	64.6	3.5	950	919	4	P-FYELD, Q-S-BCRGR
891629	LEN	9010/E43	HRS	67.5	66.3	4.1	985	911	3	Q-FYELD
891630	STOA	9010/E45	HRS	68.1	66.7	4.0	995	908	2	Q-FYELD
891631	ANZA/CAJEME 71	9010/E47	HRS	65.1	63.9	2.6	975	901	3	Q-LVOL
891632	RED RIVER 68/YECORA ROJO	9010/E76	HRS	66.0	64.8	3.1	975	901	4	Q-LVOL, Q-S-BCRGR
891633	ANZA	9010/E80	HRS	60.6	61.8	1.7	805	879	8	

LOAF VOLUME VS PROTEIN



COMMENTS: This nursery averaged 12% flour protein. With a few exceptions, most selections had satisfactory milling properties. Loaf volume of most selections was found to be satisfactory for their flour protein level. Bread crumb grain was questionable on several selections. See "Remarks" for other deficiencies.

NURSCO 63

CORCORAN, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	FHRD	MABSC
						1/		1/		3/
891634	ANZA TRET#2	9152/EIP64	HRS	64.4	73.3	0.35	90.8	11.1		58.3
891635	YECORA ROJO TRET#2	E2/P72	HRS	62.9	72.2	0.37	88.5	12.3		61.6
891636	YOLO TRET#2	E3/P69	HRS	64.8	74.4	0.32	93.4	11.5		58.5
891637	TADINIA TRET#2	E4/P61	HRS	63.2	71.6	0.35	88.9	10.2		58.1
891638	SHASTA TRET#2	E5/P79	HRS	63.6	71.7	0.32	90.6	12.6		59.4
891639	KLASIC TRET#2	E7/P74	HWS	63.7	73.8	0.37	90.2	12.0		59.9
891640	WESTBRED 911 TRET#2	E8/P76	HRS	60.8	65.1	0.52	73.4	11.7		60.9
891641	JUAN TRET#2	E9/P63	TRIT	55.5	68.5	0.45	79.7	9.2		52.6
891642	BEAGUELITA TRET#2	E10/P68	TRIT	52.3	65.4	0.49	73.1	9.7		53.4
891643	SERRA TRET#2	E15/P70	HRS	64.1	74.1	0.39	89.5	11.8		58.7
891644	CANDEAL TRET#2	E20/P65	HRS	62.7	70.6	0.35	87.9	11.7		55.7
891645	ANZA TRET#3	E1/P122	HRS	65.4	72.9	0.31	92.4	10.6		57.2
891646	YECORA ROJO TRET#3	E2/P131	HRS	64.2	71.4	0.33	89.7	12.7		61.7
891647	YOLO TRET#3	E3/P139	HRS	65.0	73.8	0.32	92.8	11.2		59.2
891648	TADINIA TRET#3	E4/P140	HRS	62.0	69.9	0.36	86.6	11.0		56.4
891649	SHASTA TRET#3	E5/P138	HRS	65.6	72.0	0.31	91.4	12.2		60.7
891650	KLASIC TRET#3	E7/P135	HWS	65.2	74.0	0.32	92.9	12.1		59.9
891651	WESTBRED 911 TRET#3	E8/P132	HRS	64.5	59.5	0.51	67.9	12.2		62.6
891652	JUAN TRET#3	E9/P125	TRIT	57.8	67.2	0.43	79.2	9.1		63.4
891653	BEAGUELITA TRET#3	E10/P128	TRIT	51.1	63.4	0.56	66.4	9.8		53.6
891654	SERRA TRET#3	E15/P123	HRS	64.9	74.7	0.38	90.6	11.3		60.5
891655	CANDEAL TRET#3	E20/P133	HRS	63.9	71.5	0.34	89.4	11.8		56.7
891656	ANZA TRET#4	E1/P198	HRS	62.0	72.2	0.35	89.5	11.8		58.1
891657	YECORA ROJO TRET#4	E2/P183	HRS	59.2	70.9	0.48	81.5	12.5		62.0
891658	YOLO TRET#4	E3/P197	HRS	57.9	70.6	0.41	84.8	12.0		57.5
891659	TADINIA TRET#4	E4/P190	HRS	60.0	70.4	0.33	88.7	10.8		57.0
891660	SHASTA TRET#4	E5/P181	HRS	61.6	70.6	0.31	90.0	13.2		61.8
891661	KLASIC TRET#4	E7/P188	HWS	60.1	71.7	0.42	85.5	12.5		60.8
891662	WESTBRED 911 TRET#4	E8/P189	HRS	57.6	62.4	0.58	67.4	12.7		62.2
891663	JUAN TRET#4	E9/P199	TRIT	50.0	64.7	0.44	75.4	10.1		51.9

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/ 3/	BABSC 3/ 4/	MTIME	LVOL	LVOLC 4/	BCRGR
891634	ANZA TRET#2	9152/E1P64	HRS	2M	58.6	58.5	1.7	795	789	9
891635	YECORA ROJO TRET#2	E2/P72	HRS	5H	64.1	62.8	3.7	955	874	3
891636	YOLO TRET#2	E3/P69	HRS	1H	59.2	58.7	1.7	810	779	8
891637	TADINIA TRET#2	E4/P61	HRS	3M	57.5	58.3	2.2	780	830	8
891638	SHASTA TRET#2	E5/P79	HRS	3H	62.2	60.6	2.4	935	836	4
891639	KLASIC TRET#2	E7/P74	HWS	5H	62.1	61.1	4.1	1000	938	3
891640	WESTBRED 911 TRET#2	E8/P76	HRS	4M	61.8	61.1	3.3	725	682	8
891641	JUAN TRET#2	E9/P63	TRIT	1M	51.0	52.8	1.4	585	693	9
891642	BEAGUELITA TRET#2	E10/P68	TRIT	2M	52.3	53.6	2.0	660	738	9
891643	SERRA TRET#2	E15/P70	HRS	3H	59.7	58.9	3.2	980	930	2
891644	CANDEAL TRET#2	E20/P65	HRS	2H	56.6	55.9	2.0	755	712	8
891645	ANZA TRET#3	E1/P122	HRS	3M	57.0	57.4	2.0	750	775	7
891646	YECORA ROJO TRET#3	E2/P131	HRS	5H	64.6	62.9	4.1	960	855	4
891647	YOLO TRET#3	E3/P139	HRS	2H	59.6	59.4	2.0	915	903	6
891648	TADINIA TRET#3	E4/P140	HRS	3M	56.6	56.6	2.3	775	775	8
891649	SHASTA TRET#3	E5/P138	HRS	4M	62.1	60.9	2.6	890	816	5
891650	KLASIC TRET#3	E7/P135	HWS	6H	62.2	61.1	5.5	965	897	4
891651	WESTBRED 911 TRET#3	E8/P132	HRS	7M	65.0	63.8	3.4	645	571	9
891652	JUAN TRET#3	E9/P125	TRIT	2M	61.7	63.6	2.6	685	799	8
891653	BEAGUELITA TRET#3	E10/P128	TRIT	3M	52.6	53.8	2.8	695	767	9
891654	SERRA TRET#3	E15/P123	HRS	5H	62.0	61.7	5.2	900	881	3
891655	CANDEAL TRET#3	E20/P133	HRS	3H	58.7	57.9	2.9	770	720	8
891656	ANZA TRET#4	E1/P198	HRS	2H	59.1	58.3	1.9	830	780	8
891657	YECORA ROJO TRET#4	E2/P183	HRS	6H	64.7	63.2	5.4	1090	997	2
891658	YOLO TRET#4	E3/P197	HRS	2H	58.7	57.7	1.9	965	903	6
891659	TADINIA TRET#4	E4/P190	HRS	2M	57.0	57.2	2.2	825	837	6
891660	SHASTA TRET#4	E5/P181	HRS	3H	65.2	63.0	2.5	1025	889	3
891661	KLASIC TRET#4	E7/P188	HWS	5H	63.5	62.0	5.2	1135	1042	2
891662	WESTBRED 911 TRET#4	E8/P189	HRS	4H	65.1	63.4	3.5	825	720	5
891663	JUAN TRET#4	E9/P199	TRIT	2M	51.2	52.1	2.0	665	719	9

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LABNUM	VARIETY	IDNO	CLASS	RMKS
891634	ANZA TRET#2	9152/E1P64	HRS	P-MTIME, P-LVOL, P-BCRGR
891635	YECORA ROJO TRET#2	E2/P72	HRS	
891636	YOLO TRET#2	E3/P69	HRS	P-MTIME, P-LVOL, P-BCRGR
891637	TADINIA TRET#2	E4/P61	HRS	P-BABS, P-MTIME, Q-LVOL, P-BCRGR
891638	SHASTA TRET#2	E5/P79	HRS	Q-LVOL, Q-S-BCRGR
891639	KLASIC TRET#2	E7/P74	HWS	
891640	WESTBRED 911 TRET#2	E8/P76	HRS	VP-FYELD, VP-MSCOR, VP-LVOL, P-BCRGR
891641	JUAN TRET#2	E9/P63	TRIT	P-FYELD, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891642	BEAGUELITA TRET#2	E10/P68	TRIT	P-TWT, VP-FYELD, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891643	SERRA TRET#2	E15/P70	HRS	
891644	CANDEAL TRET#2	E20/P65	HRS	Q-FYELD, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891645	ANZA TRET#3	E1/P122	HRS	P-BABS, P-MTIME, P-LVOL, P-BCRGR
891646	YECORA ROJO TRET#3	E2/P131	HRS	Q-S-BCRGR
891647	YOLO TRET#3	E3/P139	HRS	P-MTIME, Q-BCRGR
891648	TADINIA TRET#3	E4/P140	HRS	Q-FYELD, P-BABS, P-LVOL, P-BCRGR
891649	SHASTA TRET#3	E5/P138	HRS	P-LVOL, Q-BCRGR
891650	KLASIC TRET#3	E7/P135	HWS	Q-S-BCRGR
891651	WESTBRED 911 TRET#3	E8/P132	HRS	VP-FYELD, P-MSCOR, P-LVOL, P-BCRGR
891652	JUAN TRET#3	E9/P125	TRIT	P-FYELD, P-MSCOR, P-LVOL, P-BCRGR
891653	BEAGUELITA TRET#3	E10/P128	TRIT	P-TWT, VP-FYELD, VP-MSCOR, VP-BABS, P-LVOL, P-BCRGR
891654	SERRA TRET#3	E15/P123	HRS	
891655	CANDEAL TRET#3	E20/P133	HRS	P-BABS, P-LVOL, P-BCRGR
891656	ANZA TRET#4	E1/P198	HRS	P-BABS, P-MTIME, P-LVOL, P-BCRGR
891657	YECORA ROJO TRET#4	E2/P183	HRS	Q-FYELD, P-FASH, P-MSCOR
891658	YOLO TRET#4	E3/P197	HRS	Q-FYELD, P-FASH, P-MSCOR, P-BABS, P-MTIME, Q-BCRGR
891659	TADINIA TRET#4	E4/P190	HRS	Q-FYELD, P-BABS, P-MTIME, Q-LVOL, Q-BCRGR
891660	SHASTA TRET#4	E5/P181	HRS	
891661	KLASIC TRET#4	E7/P188	HWS	P-ASH, Q-MSCOR
891662	WESTBRED 911 TRET#4	E8/P189	HRS	Q-TWT, VP-FYELD, VP-MSCOR, VP-LVOL, Q-BCRGR
891663	JUAN TRET#4	E9/P199	TRIT	P-TWT, VP-FYELD, VP-MSCOR, VP-BABS, P-MTIME, VP-LVOL, P-BCRGR

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891664	BEAGUELITA TRET#4	E10/P194	TRIT	49.7	64.3	0.53	69.3	10.5		52.4
891665	SERRA TRET#4	E15/P182	HRS	60.9	72.0	0.43	85.3	12.1		59.6
891666	CANDEAL TRET#4	E20/P192	HRS	59.3	69.1	0.42	82.7	12.1		56.8
891667	ANZA TRET#5	E1/P247	HRS	64.8	72.4	0.33	90.8	11.2		57.7
891668	YECORA ROJO TRET#5	E2/P250	HRS	64.2	72.1	0.33	90.4	12.4		61.6
891669	YOLO TRET#5	E3/P258	HRS	64.3	73.4	0.35	90.8	11.8		56.0
891670	TADINIA TRET#5	E4/P244	HRS	62.9	71.4	0.35	88.7	10.9		55.9
891671	SHASTA TRET#5	E5/P242	HRS	65.1	71.3	0.35	88.6	12.8		62.1
891672	KLASIC TRET#5	E7/P249	HWS	64.2	73.4	0.39	88.8	12.3		59.4
891673	WESTBRED 911 TRET#5	E8/P256	HRS	60.3	61.3	0.56	67.2	11.8		62.9
891674	JUAN TRET#5	E9/P245	TRIT	54.3	67.3	0.47	76.8	9.3		52.2
891675	BEAGUELITA TRET#5	E10/P257	TRIT	51.9	65.8	0.53	71.2	10.0		53.8
891676	SERRA TRET#5	E15/P252	HRS	63.7	73.1	0.42	86.9	12.5		57.2
891677	CANDEAL TRET#5	E20/P243	HRS	63.5	69.7	0.41	83.8	11.7		56.8
891678	ANZA TRET#6	E1/P304	HRS	64.6	72.5	0.33	91.0	11.3		56.0
891679	YECORA ROJO TRET #6	E2/P311	HRS	63.0	71.0	0.41	85.1	12.2		61.4
891680	YOLO TRET#6	E3/P313	HRS	64.8	73.1	0.37	89.4	11.7		57.2
891681	TADINIA TRET#6	E4/P308	HRS	63.2	70.8	0.38	86.5	10.4		56.4
891682	SHASTA TRET#6	E5/P310	HRS	63.8	73.5	0.37	90.1	12.6		60.1
891683	KLASIC TRET#6	E7/P319	HWS	65.2	72.7	0.35	90.1	12.0		61.7
891684	WESTBRED 911 TRET#6	E8/P315	HRS	64.0	63.7	0.48	73.9	11.5		63.0
891685	JUAN TRET#6	E9/P317	TRIT	53.5	67.3	0.41	80.6	8.8		51.0
891686	BEAGUELITA TRET#6	E10/P301	TRIT	50.3	63.6	0.46	73.6	9.4		63.0
891687	CANDEAL TRET#6	E20/P306	HRS	63.3	69.4	0.38	85.2	11.6		56.9
891688	ANZA TRET#8	E1/P425	HRS	64.8	72.3	0.32	91.2	10.8		56.9
891689	YECORA ROJO TRET#8	E2/P435	HRS	64.5	71.6	0.37	88.0	12.2		60.4
891690	TADINIA TRET#8	E4/P433	HRS	63.5	71.1	0.36	87.9	10.0		58.4
891691	SHASTA TRET#8	E5/P440	HRS	65.0	72.1	0.35	89.6	12.2		60.4
891692	KLASIC TRET#8	E7/P430	HWS	64.1	72.8	0.34	90.8	11.9		60.4
891693	WESTBRED 911 TRET#8	E8/P439	HRS	63.4	63.8	0.44	76.1	11.6		60.9

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LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
891664	BEAGUELIITA TRET#4	E10/P194	TRIT	2M	52.1	52.6	2.0	675	705	9
891665	SERRA TRET#4	E15/P182	HRS	4H	61.9	60.8	4.0	1020	952	2
891666	CANDEAL TRET#4	E20/P192	HRS	2H	58.1	57.0	2.5	810	742	8
891667	ANZA TRET#5	E1/P247	HRS	1H	58.1	57.9	1.5	765	753	8
891668	YECORA ROJO TRET#5	E2/P250	HRS	4H	64.2	62.8	4.0	1090	1003	4
891669	YOLO TRET#5	E3/P258	HRS	1H	57.0	56.2	1.7	830	780	7
891670	TADINIA TRET#5	E4/P244	HRS	2M	56.0	56.1	2.0	670	676	8
891671	SHASTA TRET#5	E5/P242	HRS	2H	64.1	62.3	2.3	940	828	4
891672	KLASIC TRET#5	E7/P249	HWS	7M	60.9	59.6	4.6	1015	934	2
891673	WESTBRED 911 TRET#5	E8/P256	HRS	6M	64.9	64.1	3.5	695	645	8
891674	JUAN TRET#5	E9/P245	TRIT	2M	50.7	52.4	1.5	610	712	9
891675	BEAGUELIITA TRET#5	E10/P257	TRIT	2M	53.0	54.0	1.9	705	765	9
891676	SERRA TRET#5	E15/P252	HRS	4H	58.9	57.4	3.5	985	892	2
891677	CANDEAL TRET#5	E20/P243	HRS	2H	57.7	57.0	1.9	770	727	8
891678	ANZA TRET#6	E1/P304	HRS	1H	56.5	56.2	1.5	805	786	7
891679	YECORA ROJE TRET #6	E2/P311	HRS	5H	63.8	62.6	4.8	975	901	2
891680	YOLO TRET#6	E3/P313	HRS	1H	58.1	57.4	1.5	815	772	7
891681	TADINIA TRET#6	E4/P308	HRS	3M	56.0	56.6	1.9	775	812	8
891682	SHASTA TRET#6	E5/P310	HRS	2H	61.9	60.3	2.2	950	851	4
891683	KLASIC TRET#6	E7/P319	HWS	5H	63.9	62.9	4.4	970	908	3
891684	WESTBRED 911 TRET#6	E8/P315	HRS	4M	64.7	64.2	3.4	725	694	8
891685	JUAN TRET#6	E9/P317	TRIT	2M	49.0	51.2	1.8	520	652	9
891686	BEAGUELIITA TRET#6	E10/P301	TRIT	2M	51.6	53.2	2.0	655	751	9
891687	CANDEAL TRET#6	E20/P306	HRS	2M	57.7	57.1	1.7	765	728	8
891688	ANZA TRET#8	E1/P425	HRS	2M	56.9	57.1	1.8	760	772	8
891689	YECORA ROJO TRET#8	E2/P435	HRS	4H	62.8	61.6	3.1	965	891	2
891690	TADINIA TRET#8	E4/P433	HRS	2M	57.6	58.6	2.0	770	832	7
891691	SHASTA TRET#8	E5/P440	HRS	2H	61.8	60.6	2.2	950	876	5
891692	KLASIC TRET#8	E7/P430	HWS	4H	62.5	61.6	3.5	990	934	3
891693	WESTBRED 911 TRET#8	E8/P439	HRS	4M	62.7	62.1	3.6	660	623	9

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LABNUM	VARIETY	IDNO	CLASS	RMKS
891664	BEAGUELITA TRET#4	E10/P194	TRIT	P-TWT, VP-FYELD, VP-MSCOR, VP-BABS, P-MTIME, P-LVOL, P-BCRGR
891665	SERRA TRET#4	E15/P182	HRS	Q-FASH, Q-MSCOR
891666	CANDEAL TRET#4	E20/P192	HRS	P-FYELD, P-MSCOR, P-BABS, P-LVOL, P-BCRGR
891667	ANZA TRET#5	E1/P247	HRS	P-BABS, P-MTIME, P-LVOL, P-BCRGR
891668	YECORA ROJO TRET#5	E2/P250	HRS	Q-S-BCRGR
891669	YOLO TRET#5	E3/P258	HRS	P-BABS, P-MTIME, P-LVOL, P-Q-BCRGR
891670	TADINIA TRET#5	E4/P244	HRS	P-BABS, P-MTIME, VP-LVOL, P-BCRGR
891671	SHASTA TRET#5	E5/P242	HRS	Q-LVOL, Q-S-BCRGR
891672	KLASIC TRET#5	E7/P249	HWS	
891673	WESTBRED 911 TRET#5	E8/P256	HRS	VP-FYELD, VP-MSCOR, VP-LVOL, P-BCRGR
891674	JUAN TRET#5	E9/P245	TRIT	Q-TWT, P-FYELD, P-MSCOR, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891675	BEAGUELITA TRET#5	E10/P257	TRIT	P-TWT, P-FYELD, P-MSCOR, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891676	SERRA TRET#5	E15/P252	HRS	Q-FASH, Q-MSCOR, P-BABS
891677	CANDEAL TRET#5	E20/P243	HRS	P-FYELD, P-MSCOR, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891678	ANZA TRET#6	E1/P304	HRS	P-BABS, P-MTIME, P-LVOL, P-Q-BCRGR
891679	YECORA ROJE TRET #6	E2/P311	HRS	Q-MSCOR
891680	YOLO TRET#6	E3/P313	HRS	P-BABS, P-MTIME, P-LVOL, P-Q-BCRGR
891681	TADINIA TRET#6	E4/P308	HRS	Q-MSCOR, P-BABS, P-LVOL, P-BCRGR
891682	SHASTA TRET#6	E5/P310	HRS	Q-MTIME, Q-S-BCRGR
891683	KLASIC TRET#6	E7/P319	HWS	
891684	WESTBRED 911 TRET#6	E8/P315	HRS	VP-FYELD, VP-MSCOR, VP-LVOL, P-BCRGR
891685	JUAN TRET#6	E9/P317	TRIT	P-TWT, P-FYELD, P-MSCOR, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891686	BEAGUELITA TRET#6	E10/P301	TRIT	P-TWT, VP-FYELD, VP-MSCOR, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891687	CANDEAL TRET#6	E20/P306	HRS	P-FYELD, Q-MSCOR, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891688	ANZA TRET#8	E1/P425	HRS	P-BABS, P-MTIME, P-LVOL, P-BCRGR
891689	YECORA ROJO TRET#8	E2/P435	HRS	
891690	TADINIA TRET#8	E4/P433	HRS	P-BABS, P-MTIME, P-LVOL, P-Q-BCRGR
891691	SHASTA TRET#8	E5/P440	HRS	Q-MTIME, Q-BCRGR
891692	KLASIC TRET#8	E7/P430	HWS	
891693	WESTBRED 911 TRET#8	E8/P439	HRS	VP-FYELD, VP-MSCOR, VP-LVOL, P-BCRGR

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891694 JUAN TRET#8		E9/P436	TRIT	57.1	67.2	0.48	76.1	9.5		54.3
891695 BEAGUELITA TRET#8		E10/P432	TRIT	54.6	66.3	0.51	73.2	9.6		53.8
891696 SERRA TRET#8		E15/P423	HRS	64.8	73.9	0.40	88.5	11.6		57.9
891697 CANDEAL TRET#8		E20/P428	HRS	64.7	69.5	0.41	83.7	11.3		57.1

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
891694 JUAN TRET#8		E9/P436	TRIT	2M	53.0	54.5	1.9	650	740	9
891695 BEAGUELITA TRET#8		E10/P432	TRIT	2M	52.6	54.0	2.2	670	754	9
891696 SERRA TRET#8		E15/P423	HRS	4H	59.7	59.1	3.6	910	873	3
891697 CANDEAL TRET#8		E20/P428	HRS	2M	57.6	57.3	2.0	795	776	8

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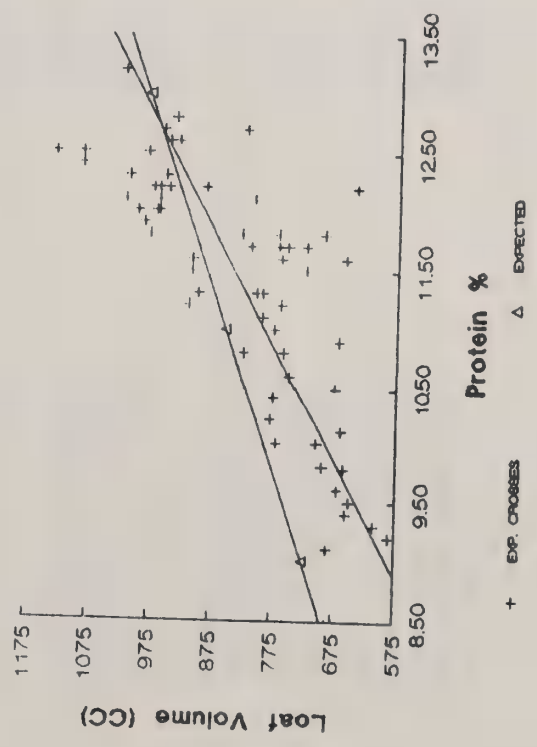
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LABNUM	VARIETY	IDNO	CLASS	RMKS
891694 JUAN TRET#8		E9/P436	TRIT	P-FYELD, P-MSCOR, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891695 BEAGUELITA TRET#8		E10/P432	TRIT	VP-FYELD, VP-MSCOR, P-BABS, P-MTIME, P-LVOL, P-BCRGR
891696 SERRA TRET#8		E15/P423	HRS	
891697 CANDEAL TRET#8		E20/P428	HRS	P-FYELD, P-MSCOR, P-BABS, P-MTIME, P-LVOL, P-BCRGR

COMMENTS: This nursery averaged 11% flour protein. There were six treatments in this nursery (2,3,4,5,6 and 8). Comparisons were made among the cultivars in each treatment group. Those generally with better overall quality were Yecora Rojo, Klasic and Serra. This generally held across all treatments. See "Remarks" for individual deficiencies and the plot of loaf volume vs % flour protein.

LOAF VOLUME VS PROTEIN



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LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891698	VEE-BH1146 TRET#2	E3/P118	HRS	62.9	71.6	0.40	86.4	13.2		64.1
891699	YECORA ROJO TRET #2	E4/P109	HRS	60.5	71.8	0.45	83.7	13.7		61.9
891700	ANZA TRET#2	E5/P91	HRS	61.6	70.8	0.42	84.6	13.7		61.3
891701	RR68/4/WM15/3/BJY/4/OLE2// TRET#2	E7/P110	HRS	60.1	69.6	0.42	83.2	12.2		63.3
891702	JAR66//KVZ/YR70//PF70354/3/ TRET#2	E8/P111	HRS	55.0	66.0	0.49	75.5	13.9		61.8
891703	ESTGN 1021 TRET#2	E14/P116	HRS	62.5	71.7	0.43	85.0	12.6		61.1
891704	ESTGN 1025 TRET#2	E15/P114	HRS	62.5	69.8	0.35	87.1	13.4		61.3
891705	ESTGN 1030 TRET#2	E17/P94	HRS	62.3	73.0	0.34	90.9	13.3		60.2
891706	GIBLER-1/1171-PCI//KVZ1171 TRET#2	E19/P95	HRS	62.5	69.6	0.38	85.3	13.4		63.9
891707	ESTGN 3124 TRET#2	E22/P96	HRS	61.4	71.8	0.41	86.1	12.9		62.3
891708	ESTGN 3129 TRET#2	E23/P101	HRS	62.2	71.3	0.35	88.6	12.2		63.3
891709	ESTGN 3128 TRET#2	E24/P104	HWS	61.0	69.2	0.40	83.8	11.5		63.0
891710	ESTGN 3084 TRET#2	E25/P105	HWS	61.9	68.6	0.36	85.3	11.1		62.8
891711	ESTGN 3029 TRET#2	E26/P102	HRS	60.9	64.1	0.41	78.1	12.5		62.7
891712	ESTGN 3099 TRET#2	E28/P112	HRS	61.6	69.7	0.44	82.3	10.3		63.6
891713	ESTGN 3125 TRET#2	E29/P115	SRS	63.7	67.0	0.39	82.6	11.9		61.6
891714	ESTGN 3126 TRET#2	E30/P100	HRS	61.8	70.7	0.44	83.3	12.5		63.0
891715	VEE-BH1146 TRET#3	E3/P184	HRS	63.4	70.5	0.39	85.8	12.6		62.5
891716	YECORA ROJO TRET#3	E4/P190	HRS	62.9	69.8	0.38	85.5	13.1		63.3
891717	ANZA TRET#3	E5/P195	HRS	63.6	70.1	0.38	85.8	13.0		63.5
891718	RR68/3/WM15//BJY/3/OLE2//BOW TRET#3	E7/P185	HRS	61.8	68.5	0.42	82.1	11.9		63.5
891719	JAR66//KVZ/YR70//PF70354/3/ALD TRET#3	E8/P192	HRS	54.5	62.7	0.50	71.9	14.1		63.2
891720	ESTGN 1021 TRET#3	E14/P209	HRS	61.9	68.1	0.48	78.5	12.7		63.8
891721	ESTGN 1025 TRET#3	E15/P189	HRS	66.0	70.4	0.37	86.7	12.0		63.4
891722	ESTGN 1030 TRET#3	E17/P187	HRS	64.5	73.2	0.34	91.1	13.2		63.5
891723	GIBLER-1/3/1171/4/PCI//KVZ1171 TRET#3	E19/P183	HRS	62.1	67.6	0.44	80.1	12.9		66.6
891724	ESTGN 3124 TRET#3	E22/P208	HRS	62.4	71.4	0.37	87.7	12.6		64.6
891725	ESTGN 3129 TRET#3	E23/P210	HRS	61.9	70.5	0.41	84.7	12.1		63.4
891726	ESTGN 3128 TRET#3	E24/P193	HWS	61.4	67.3	0.43	80.3	10.5		62.9
891727	ESTGN 3084 TRET#3	E25/P199	HWS	63.3	67.5	0.37	83.6	10.6		65.4

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/

Particularly promising overall quality characteristics.

6/

Promising overall quality characteristics.

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CORCORAN, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BAB5C 3/	MTIME	LVOL	LVOLC 4/	BCRGR
891698	VEE-BH1146 TRET#2	E3/P118	HRS	2H	65.5	64.3	2.4	930	856	4
891699	YECORA ROJO TRET #2	E4/P109	HRS	2H	63.8	62.1	2.1	910	805	4
891700	ANZA TRET#2	E5/P91	HRS	2H	63.2	61.5	2.0	1050	945	5
891701	RR68/4/WJ15/3/BJY/4/OLE2// TRET#2	E7/P110	HRS	4H	64.7	64.5	3.0	955	943	3
891702	JAR66//KVZ/YR70//PF70354/3/ TRET#2	E8/P111	HRS	2H	64.4	62.5	2.4	1010	892	4
891703	ESTGN 1021 TRET#2	E14/P116	HRS	4M	61.9	61.3	2.6	875	838	6
891704	ESTGN 1025 TRET#2	E15/P114	HRS	2H	62.9	61.5	1.9	935	848	5
891705	ESTGN 1030 TRET#2	E17/P94	HRS	2H	61.7	60.4	2.1	935	854	2
891706	GIBLER-1/T171-PCI//KVZT171 TRET#2	E19/P95	HRS	2H	65.5	64.1	2.6	1020	933	2
891707	ESTGN 3124 TRET#2	E22/P96	HRS	3H	64.4	63.5	3.0	990	934	3
891708	ESTGN 3129 TRET#2	E23/P101	HRS	3H	64.7	64.5	3.3	935	923	3
891709	ESTGN 3128 TRET#2	E24/P104	HWS	3M	63.7	64.2	2.3	890	921	4
891710	ESTGN 3084 TRET#2	E25/P105	HWS	3M	63.1	64.0	2.4	900	956	4
891711	ESTGN 3029 TRET#2	E26/P102	HRS	2H	64.4	63.9	2.0	920	889	4
891712	ESTGN 3099 TRET#2	E28/P112	HRS	4M	63.1	64.8	3.1	910	1015	5
891713	ESTGN 3125 TRET#2	E29/P115	SRS	2M	62.7	62.8	1.9	880	886	6
891714	ESTGN 3126 TRET#2	E30/P100	HRS	5H	65.2	64.7	4.1	975	944	3
891715	VEE-BH1146 TRET#3	E3/P184	HRS	3H	64.3	63.7	3.7	995	958	6
891716	YECORA ROJO TRET#3	E4/P190	HRS	3H	65.6	64.5	3.7	1020	952	2
891717	ANZA TRET#3	E5/P195	HRS	3H	65.7	64.7	3.5	990	928	6
891718	RR68/3/WJ15//BJY/3/OLE2//BON TRET#3	E7/P185	HRS	5H	65.1	65.2	4.0	885	891	6
891719	JAR66//KVZ/YR70//PF70354/3/ALD TRET#3	E8/P192	HRS	3H	66.5	64.4	2.8	1010	880	2
891720	ESTGN 1021 TRET#3	E14/P209	HRS	5H	65.7	65.0	3.7	870	827	4
891721	ESTGN 1025 TRET#3	E15/P189	HRS	3H	64.6	64.6	2.5	950	950	3
891722	ESTGN 1030 TRET#3	E17/P187	HRS	3H	63.9	62.7	2.5	960	886	2
891723	GIBLER-1/3/T171/4/PCI//KVZT171 TRET#3	E19/P183	HRS	4H	69.2	68.3	3.3	910	854	3
891724	ESTGN 3124 TRET#3	E22/P208	HRS	5H	66.9	66.3	4.1	960	923	2
891725	ESTGN 3129 TRET#3	E23/P210	HRS	5H	65.2	65.1	4.3	900	894	4
891726	ESTGN 3128 TRET#3	E24/P193	HWS	4M	62.6	64.1	3.1	880	973	5
891727	ESTGN 3084 TRET#3	E25/P199	HWS	4M	65.2	66.6	2.8	885	972	6

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LABNUM	VARIETY	IDNO	CLASS	RMKS
891698	VEE-BH1146 TRET#2	E3/P118	HRS	Q-MTIME, P-LVOL, Q-S-BCRGR
891699	YECORA ROJO TRET #2	E4/P109	HRS	
891700	ANZA TRET#2	E5/P91	HRS	
891701	RR68/4/WW15/3/BJY/4/OLE2// TRET#2	E7/P110	HRS	Q-FYELD
891702	JAR66//KVZ/YR70//PF70354/3/ TRET#2	E8/P111	HRS	P-TWT, VP-FYELD, Q-MTIME, P-Q-LVOL, Q-S-BCRGR
891703	ESTGN 1021 TRET#2	E14/P116	HRS	P-BABS, P-LVOL, Q-BCRGR
891704	ESTGN 1025 TRET#2	E15/P114	HRS	P-BABS, P-MTIME, P-LVOL, Q-BCRGR
891705	ESTGN 1030 TRET#2	E17/P94	HRS	P-BABS, P-MTIME, P-LVOL
891706	GIBLER-1/T171-PC1//KVZT171 TRET#2	E19/P95	HRS	
891707	ESTGN 3124 TRET#2	E22/P96	HRS	
891708	ESTGN 3129 TRET#2	E23/P101	HRS	
891709	ESTGN 3128 TRET#2	E24/P104	HWS	Q-FYELD, Q-S-BCRGR
891710	ESTGN 3084 TRET#2	E25/P105	HWS	Q-FYELD, Q-MTIME, Q-S-BCRGR
891711	ESTGN 3029 TRET#2	E26/P102	HRS	VP-FYELD, P-MTIME, Q-LVOL, Q-S-BCRGR
891712	ESTGN 3099 TRET#2	E28/P112	HRS	Q-FYELD, Q-FASH, P-MSCOR, Q-BCRGR
891713	ESTGN 3125 TRET#2	E29/P115	SRS	P-FYELD, P-MTIME, P-Q-LVOL, Q-BCRGR
891714	ESTGN 3126 TRET#2	E30/P100	HRS	Q-MSCOR
891715	VEE-BH1146 TRET#3	E3/P184	HRS	Q-BCRGR
891716	YECORA ROJO TRET#3	E4/P190	HRS	
891717	ANZA TRET#3	E5/P195	HRS	
891718	RR68/3/WW15//BJY/3/OLE2//BON TRET#3	E7/P185	HRS	P-FYELD, Q-LVOL, Q-BCRGR
891719	JAR66//KVZ/YR70//PF70354/3/ALD TRET#3	E8/P192	HRS	P-TWT, VP-FYELD, VP-MSCOR, P-LVOL
891720	ESTGN 1021 TRET#3	E14/P209	HRS	P-FYELD, P-FASH, P-MSCOR, VP-LVOL, Q-S-BCRGR
891721	ESTGN 1025 TRET#3	E15/P189	HRS	
891722	ESTGN 1030 TRET#3	E17/P187	HRS	P-Q-LVOL
891723	GIBLER-1/3/T171/4/PC1//KVZT171 TRET#3	E19/P183	HRS	P-FYELD, P-MSCOR, P-LVOL
891724	ESTGN 3124 TRET#3	E22/P208	HRS	
891725	ESTGN 3129 TRET#3	E23/P210	HRS	Q-LVOL
891726	ESTGN 3128 TRET#3	E24/P193	HWS	P-FYELD, P-MSCOR, Q-BCRGR
891727	ESTGN 3084 TRET#3	E25/P199	HWS	P-FYELD, Q-BCRGR

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CORCORAN, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH	MSCOR	FPROT	FHRD	MABSC
						1/		1/		3/
891728	ESTGN 3029 TRET#3	E26/P204	HRS	61.5	63.8	0.40	78.3	11.5		64.6
891729	ESTGN 3099 TRET#3	E28/P198	HRS	63.5	68.9	0.41	83.0	10.1		67.4
891730	ESTGN 3125 TRET#3	E29/P200	SRS	65.6	65.6	0.30	86.6	10.9		63.5
891731	ESTGN 3126 TRET#3	E30/P188	SRS	64.6	72.1	0.39	89.2	12.2		62.2

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS	BABSC	MTIME	LVOL	LVOLC	BCRGR
					1/	3/			4/	
891728	ESTGN 3029 TRET#3	E26/P204	HRS	ZH	64.8	65.3	2.5	905	936	6
891729	ESTGN 3099 TRET#3	E28/P198	HRS	7H	66.7	68.6	3.4	830	948	5
891730	ESTGN 3125 TRET#3	E29/P200	SRS	4M	63.6	64.7	2.8	910	976	6
891731	ESTGN 3126 TRET#3	E30/P188	SRS	6H	64.1	63.9	5.2	960	948	5

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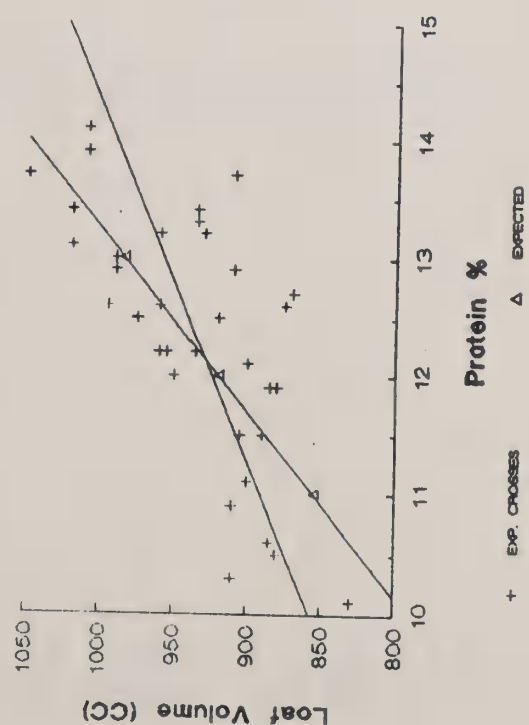
CORCORAN, CA

C.O. QUALSET

LABNUM	VARIETY	IDNO	CLASS	RMKS
891728	ESTGN 3029 TRET#3	E26/P204	HRS	VP-FYELD,VP-MSCOR,Q-BCRGR
891729	ESTGN 3099 TRET#3	E28/P198	HRS	Q-FYELD,Q-BCRGR
891730	ESTGN 3125 TRET#3	E29/P200	SRS	VP-FYELD,LOW-ASH,Q-BCRGR
891731	ESTGN 3126 TRET#3	E30/P188	SRS	Q-BCRGR

COMEMNTS: This nursery averaged 12% flour protein. Selections having Treatment #2 were compared with the checks (Yecora Rojo and Anza) in their respective group. Yecora Rojo (Treatment #2) did not have the expected loaf volume for its flour protein level. Also, its mix time was quite short. Anza had loaf volume in line with that expected. A few selections had questionable to poor milling properties. Loaf volumes were low on some selections, however, the check Yecora Rojo had low loaf volume. Comparisons may not be too reliable. Selections having Treatment #3 were compared with the checks (Yecora Rojo and Anza) in their respective group. The two checks were considered normal in their milling and baking properties. A few selections had poor to questionable milling properties and/or loaf volumes. IDNO E29/P115, E29/P200 and E30/P188 were classified as soft red spring by NIR hardness. Comparisons were only made within treatment groups. See "Remarks" and plot of loaf volume vs flour protein.

LOAF VOLUME VS PROTEIN



NURSCO 65

PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891732 TYEE		1	CLUB	60.5	73.9	0.33	89.7	9.3	23	52.1
891733 TRES		2	CLUB	63.9	74.1	0.32	89.9	10.1	26	49.9
891734 PAHA		3	CLUB	63.6	75.9	0.32	92.4	9.4	29	51.5
891735 CREW		4	CLUB	62.7	73.8	0.32	89.4	10.2	26	51.5
891736 HYAK		5	CLUB	61.7	74.4	0.29	92.4	9.6	27	54.3
891737 WA7526		6	CLUB	63.0	73.7	0.31	89.5	9.9	21	51.2
891738 WA7527		7	CLUB	62.9	74.2	0.32	90.0	9.6	23	52.0
891739 WA7217		8	CLUB	63.5	73.2	0.29	90.3	9.9	22	51.7
891740 WA7437		9	CLUB	62.1	72.3	0.28	88.7	10.5	24	53.8
891741 WA7622		6/10	CLUB	61.4	74.1	0.32	90.6	9.1	23	52.7
891742 WA7665		11	CLUB	61.2	75.1	0.30	92.9	9.3	17	52.3
891743 WA7621		12	CLUB	63.0	72.7	0.33	88.3	9.2	19	51.6
891744 .		13	CLUB	62.5	71.2	0.35	84.5	8.8	27	52.7
891745 .		14	CLUB	62.4	71.2	0.31	86.4	9.2	22	53.8
891746 .		15	CLUB	62.1	72.6	0.32	86.6	9.3	30	54.2
891747 .		6/31	CLUB	60.6	75.4	0.32	91.2	9.1	14	50.2
891748 .		32	CLUB	64.1	73.0	0.32	87.6	9.2	28	53.4
891749 WA7673		33	CLUB	60.7	74.8	0.29	91.5	9.5	30	53.2
891750 .		34	CLUB	62.7	74.1	0.31	90.3	9.1	22	52.5
891751 .		35	CLUB	63.2	75.8	0.32	92.5	9.2	25	51.9
891752 .		38	CLUB	62.9	74.7	0.30	93.8	9.5	33	53.4
891753 .		39	CLUB	64.5	75.4	0.28	93.6	10.0	26	51.6
891754 .		5/40	CLUB	62.8	75.7	0.32	92.8	9.3	25	52.3
891755 .		5/41	CLUB	62.4	74.4	0.32	90.5	9.2	20	48.5
891756 .		42	CLUB	63.0	73.7	0.30	90.1	9.0	28	51.9
891757 .		43	CLUB	63.4	72.2	0.31	88.1	9.6	35	51.8
891758 .		44	CLUB	57.6	73.4	0.30	89.8	9.2	25	51.7
891759 .		45	CLUB	63.6	72.9	0.28	89.8	9.3	26	53.1
891760 .		46	CLUB	62.5	74.3	0.30	91.7	8.4	29	51.7
891761 .		47	CLUB	61.9	74.9	0.29	93.3	8.3	33	52.9

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	MTYPE	CAVOL	SCSOR	RMKS
891732	TYEE	1	CLUB	8.49	8.51	3M	1305	76.0	
891733	TRES	2	CLUB	8.41	8.49	1M	1270	75.0	
891734	PAHA	3	CLUB	9.00	9.03	1M	1300	75.0	
891735	CREW	4	CLUB	8.43	8.51	1M	1320	80.0	
891736	HYAK	5	CLUB	8.33	8.37	4L	1270	77.0	
891737	WA7526	6	CLUB	8.37	8.44	1M	1250	71.0	Q-COD1, Q-CAVOL, P-SCSOR
891738	WA7527	7	CLUB	8.61	8.66	1M	1180	62.0	P-CAVOL, P-SCSOR
891739	WA7217	8	CLUB	8.95	9.01	2M	1180	69.0	P-CAVOL, P-SCSOR
891740	WA7437	9	CLUB	8.44	8.54	3M	1305	78.0	Q-FYELD
891741	WA7622	10	CLUB	8.91	8.92	2L	1285	75.0	
891742	WA7665	11	CLUB	8.84	8.86	2L	1250	70.0	Q-CAVOL, P-SCSOR
891743	WA7621	12	CLUB	8.65	8.66	1M	1265	73.0	Q-FYELD, Q-SCSOR
891744	.	13	CLUB	8.49	8.47	1M	1260	70.0	P-FYELD, P-SCSOR
891745	.	14	CLUB	8.32	8.34	2M	1270	73.0	P-FYELD, P-COD1, Q-SCSOR
891746	.	15	CLUB	8.54	8.56	2M	1250	71.0	Q-FYELD, Q-CAVOL, P-SCSOR
891747	.	31	CLUB	8.74	8.74	1M	1325	76.0	
891748	.	32	CLUB	9.06	9.08	2L	1230	71.0	Q-MSCOR, P-CAVOL, P-SCSOR
891749	WA7673	33	CLUB	8.70	8.74	3M	1240	69.0	P-CAVOL, P-SCSOR
891750	.	34	CLUB	8.62	8.63	1M	1345	79.0	Excellent CAVOL and SCSOR
891751	.	35	CLUB	8.39	8.40	1M	1340	78.0	Q-COD1, Excellent SCSOR, Excellent M
891752	.	38	CLUB	8.43	8.46	2M	1345	78.0	Q-COD1, Excellent SCSOR, Excellent MS
891753	.	39	CLUB	8.56	8.63	1M	1280	73.0	Q-SCSOR, Excellent MSCOR
891754	.	40	CLUB	9.33	9.35	1M	1335	79.0	
891755	.	41	CLUB	8.68	8.69	1M	1330	78.0	Good SCSOR
891756	.	42	CLUB	8.54	8.54	3L	1305	76.0	
891757	.	43	CLUB	8.34	8.38	2M	1295	73.0	Q-FYELD, P-COD1, Q-SCSOR
891758	.	44	CLUB	9.27	9.29	2M	1265	70.0	P-SCSOR
891759	.	45	CLUB	8.66	8.68	2M	1290	73.0	Q-SCSOR
891760	.	46	CLUB	8.41	8.37	3L	1280	73.0	P-COD1, Q-SCSOR
891761	.	47	CLUB	8.45	8.40	5L	1295	75.0	Q-COD1, Excellent MSCOR

COMMENTS:

This nursery averaged 9% flour protein content. Milling properties were generally quite good to excellent for most selections in this nursery. The cookie spread of the check varieties was not very satisfactory, except for Paha. Cookie spread among the selections was quite variable ranging from approximately 8.3 to 9.3 cm corrected to 9% flour protein content. Sponge cake volume and score was questionable to poor on several selections. A few selections were footnoted. See "Remarks".

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WALLA WALLA, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891762 .		6/ 51	SWW	63.4	74.3	0.40	87.3	8.3	25	52.9
891763 .		52	SWW	62.5	74.1	0.41	85.5	8.6	29	51.5
891764 .		53	SWW	62.6	73.9	0.40	85.9	8.8	23	51.8
891765 .		54	SWW	62.9	73.5	0.41	85.7	8.2	19	52.1
891766 .		55	SWW	62.7	71.9	0.43	81.5	7.5	28	53.8
891767 .		56	SWW	64.3	71.2	0.42	80.6	8.0	21	54.4
891768 .		57	SRW	60.2	68.7	0.36	78.4	9.6	28	54.7
891769 .		58	SRW	61.3	73.1	0.41	83.7	9.9	29	54.0
891770 .		59	SWW	62.2	74.2	0.38	85.8	8.7	32	53.9
891771 .		60	SWW	62.8	70.1	0.38	80.3	9.1	29	54.7
891772 .		61	SWW	62.5	74.5	0.33	90.8	9.6	29	55.6
891773 .		62	SWW	61.5	73.9	0.40	85.4	8.4	30	53.9
891774 .		63	SWW	64.1	72.8	0.36	85.9	8.4	28	55.4
891775 .		64	SWW	62.8	74.5	0.39	87.8	8.9	28	54.3
891776 WA7672		65	SWW	61.8	72.0	0.47	78.7	8.1	39	55.9
891777 .		66	SWW	63.1	71.4	0.43	79.5	8.5	31	54.6
891778 WA7671		67	SWW	62.4	75.0	0.41	86.5	8.2	27	55.6
891779 .		89	SWW	63.7	73.3	0.35	86.7	8.0	27	53.7
891780 .		90	SWW	63.7	73.0	0.40	83.6	8.3	32	55.9
891781 .		91	SWW	63.6	72.0	0.39	81.3	9.4	27	54.4
891782 .		92	SRW	62.7	69.4	0.40	77.5	8.2	28	54.1
891783 .		93	SRW	63.6	65.5	0.37	73.2	10.4	29	53.7
891784 .		94	SWW	62.2	67.9	0.37	77.5	7.5	28	55.0
891785 .		95	SWW	64.2	66.1	0.35	74.9	8.2	25	55.8
891786 .		96	SWW	63.7	66.3	0.35	76.0	7.8	24	55.5
891787 .		97	SWW	64.0	68.1	0.33	79.3	7.8	26	56.9
891788 .		98	SWW	62.0	68.2	0.35	79.2	7.8	23	55.0
891789 .		99	SWW	62.5	70.9	0.40	81.7	8.1	47	55.1
891790 .		100	SWW	60.8	67.5	0.37	76.5	7.2	17	56.2
891791 WA7435		101	SWW	62.3	70.5	0.39	80.9	8.9	25	55.4

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 8% protein.

4/ Observed values corrected to 8% protein.

5/ Particularly promising overall quality characteristics.
6/ Promising overall quality characteristics.

NURSCO 66

WALLA WALLA, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	MTYPE	RMKS
891762 .		51	SWW	9.07	9.11	3L	
891763 .		52	SWW	8.42	8.49	2L	P-COD1
891764 .		53	SWW	8.83	8.91	2L	
891765 .		54	SWW	8.89	8.91	3L	
891766 .		55	SWW	8.52	8.47	2L	P-FYELD, P-MSCOR, P-COD1
891767 .		56	SWW	8.95	8.95	2L	P-FYELD, P-MSCOR
891768 .		57	SRW	8.64	8.81	2M	VP-FYELD, P-MSCOR
891769 .		58	SRW	8.60	8.81	2M	Q-MSCOR
891770 .		59	SWW	8.40	8.48	2L	P-COD1
891771 .		60	SWW	8.20	8.32	3L	P-FYELD, P-MSCOR, P-COD1
891772 .		61	SWW	8.61	8.79	3M	Good FYELD
891773 .		62	SWW	8.31	8.36	2M	P-COD1
891774 .		63	SWW	8.34	8.38	2M	P-COD1
891775 .		64	SWW	8.65	8.75	2M	
891776 WA7672		65	SWW	8.06	8.07	4M	P-FYELD, P-FASH, P-MSCOR, P-COD1
891777 .		66	SWW	8.43	8.48	3M	P-FYELD, P-MSCOR, P-COD1
891778 WA7671		67	SWW	8.60	8.62	2L	P-COD1
891779 .		89	SWW	9.20	9.20	3L	Good COD1
891780 .		90	SWW	8.58	8.61	3L	Q-MSCOR, P-COD1
891781 .		91	SWW	9.40	9.55	2M	P-FYELD, P-MSCOR, Excellent COD1
891782 .		92	SRW	8.49	8.51	3L	VP-FYELD, P-MSCOR, P-COD1
891783 .		93	SRW	8.73	8.99	2M	VP-FYELD, P-MSCOR
891784 .		94	SWW	8.77	8.72	5L	VP-FYELD, P-MSCOR
891785 .		95	SWW	8.16	8.18	3L	VP-FYELD, P-MSCOR, P-COD1
891786 .		96	SWW	8.49	8.47	3L	VP-FYELD, P-MSCOR, P-COD1
891787 .		97	SWW	8.05	8.03	3L	P-FYELD, P-MSCOR, P-COD1
891788 .		98	SWW	8.68	8.65	2L	P-FYELD, P-MSCOR, Q-COD1
891789 .		99	SWW	8.02	8.04	4L	P-FYELD, P-MSCOR, P-COD1
891790 .		100	SWW	8.43	8.34	3L	P-FYELD, P-MSCOR, P-COD1
891791 WA7435		101	SWW	8.35	8.45	3L	P-FYELD, P-MSCOR, P-COD1

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WALLA WALLA, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891792 .		102	SWW	63.1	72.8	0.37	84.6	8.4	24	56.2
891793 .		103	SWW	63.1	73.1	0.39	83.3	9.2	27	53.5
891794 .		104	SWW	63.3	74.0	0.38	85.8	8.4	24	54.8
891795 LUKE		110	SWW	63.6	74.1	0.40	85.3	8.2	21	55.6

LABNUM	VARIETY	IDNO	CLASS	COOI	COOIC 4/	MTYPE	RMKS
891792 .		102	SWW	8.71	8.76	2L	Q-FYELD, Q-MSCOR
891793 .		103	SWW	8.79	8.92	1M	Q-MSCOR
891794 .		104	SWW	8.75	8.79	2M	
891795 LUKE		110	SWW	8.82	8.85	3L	

COMMENTS: This nursery averaged 8% flour protein content. Several selections in this nursery had poor to questionable flour yield and/or milling scored. Cookie spread of several selections was also poor to questionable. One selection (IDNO 51) was footnoted for having promising overall quality characteristics. See "Remarks".

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ID, WA

LABNUM	VARIETY	IDNO	CLASS	TWT	WPROT 1/	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/
891796 MCKAY										
891797 FEDERATION		C117903	HRS	61.1	13.5	70.9	0.36	83.7	11.9	62.8
891798 OWENS		C14734	SWS	58.6	13.2	70.3	0.40	79.6	11.4	55.5
891799 PENAWAWA		C117904	SWS	60.3	12.3	69.6	0.34	82.6	10.2	57.2
891800 SPILLMAN		WA6920	SWS	59.5	12.2	70.1	0.40	80.1	10.5	57.0
		P1506350	HRS	58.8	13.6	68.4	0.39	79.4	12.6	63.2
891801 WAKANZ										
891802 K7205078/C114193, S65		P1506352	SWS	59.5	12.1	72.0	0.38	84.3	10.0	57.5
891803 K78504/K74129-33//K7806645, N25		WA7326	HRS	59.5	13.9	72.0	0.40	84.9	13.0	65.2
891804 MINIVET S, CM37705K		WA7176	SWS	58.4	12.8	69.4	0.46	76.0	10.6	56.7
891805 K7400315/PTM70S.47		ORS8510	HRS	59.9	14.1	68.3	0.40	78.1	12.6	63.3
		WA7496	SWS	56.9	12.7	71.6	0.45	79.3	10.9	57.3
891806 COMBIRD"S"/5/MC/BJO 66/4//TZPP/SN64										
891807 BRH/3/11-60-101//TZPP/SN 64/4		ID341	HRS	60.4	15.3	71.3	0.43	82.5	14.4	53.7
891808 WYNNE/CA000353		ID366	HRS	60.2	14.5	73.8	0.38	88.4	13.5	65.1
891809 WYNNE/CA000353		UT743	HRS	61.9	13.7	72.5	0.40	84.6	12.3	64.4
891810 WYNNE/CA000353		UT817	HRS	62.0	13.0	71.9	0.38	86.5	11.6	64.1
		UT884	HRS	61.1	12.6	71.3	0.39	84.9	11.7	63.4
891811 HDM00004/NK000751		WA7493	HRS	60.2	13.1	74.3	0.42	87.8	12.5	63.4
891812 CORVALLIS DUAL PURPOSE SEL.		OR487503	SWS	58.9	13.2	69.8	0.42	77.9	11.0	59.5
891813 EMU SIB/TJB 84/1543		OR487570	SWS	59.4	12.7	70.4	0.42	79.2	10.5	58.5
891814 SAP SIB/MON SIB		OR487316	SWS	58.3	12.4	68.1	0.40	76.2	10.4	59.0
891815 A76102S-1-2/ID000134		ID367	HRS	60.6	14.3	71.3	0.40	82.5	11.6	65.6
891816 A76102S-1-2/ID000134										
891817 ID000190/ID001388		ID369	HRS	60.8	14.7	69.1	0.35	83.1	13.1	65.8
891818 STERLING/BLISS		ID379	SWS	60.2	12.0	71.0	0.40	80.3	10.1	56.8
891819 A73249S-11331-1/VEERY'S ¹		6/ ID415	SWS	60.8	11.8	72.4	0.38	83.2	9.9	57.6
891820 ID000182/FIELDWIN		ID416	SWS	60.8	12.6	71.8	0.40	80.8	10.8	57.1
		ID417	SWS	62.5	12.0	72.7	0.35	87.9	9.6	59.1
891821 ID000204/ID000134		ID419	HRS	62.1	15.3	67.4	0.37	79.6	13.4	64.6
891822 A7612S-2/A75141S-2-1		ID420	HRS	61.3	13.4	69.4	0.34	84.1	11.9	66.3
891823 UT 77M1054-1777/906R		UT580646	HRS	59.3	13.1	68.2	0.39	79.8	11.1	63.8
891824 RICK/UT 78S 147-125		UT613960	HRS	60.1	12.7	70.8	0.39	84.2	11.4	63.5
891825 UT78S 147-209/906R		UT2464	HRS	61.8	13.5	69.7	0.40	81.4	12.2	62.7

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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ID, WA

LABNUM	VARIETY	IDNO	CLASS	MTYPE	VISC	VISCC 4/	CODI 4/	CODIC 4/	CAVOL	SCSOR
891796 MCKAY		C117903	HRS	3H						
891797 FEDERATION		C14734	SWS	1H	140	153	8.61	8.55	1275	74.0
891798 OWENS		C117904	SWS	2M	154	207	9.26	9.06	1340	79.0
891799 PENAWAWA		WA6920	SWS	3M	133	168	9.37	9.21	1325	76.0
891800 SPILLMAN		P1506350	HRS	3H						
891801 WAKANZ		P1506352	SWS	3M	117	162	8.89	8.67	1260	74.0
891802 K7205078/C114193, S65		WA7326	HRS	6H						
891803 K78504/K74129-33//K7806645, N25		WA7176	SWS	2M	81	100	8.85	8.70	1275	74.0
891804 MINIVET S, CM37705K		ORS8510	HRS	3H						
891805 K7400315/PTM70S.47		WA7496	SWS	3M	102	120	8.87	8.75	1345	79.0
891806 COMBIRD"S"/5/MC/BJO 66/4//TZPP/SN64		ID341	HRS	4H						
891807 BRH/3/11-60-101//TZPP/SN 64/4		ID366	HRS	5H						
891808 WYNNE/CA000353		UT743	HRS	2H						
891809 WYNNE/CA000353		UT817	HRS	3M						
891810 WYNNE/CA000353		UT884	HRS	2H						
891811 HDM00004/NK000751		WA7493	HRS	3H						
891812 CORVALLIS DUAL PURPOSE SEL.		OR487503	SWS	3H	168	196	8.12	8.02	1240	69.0
891813 EMU SIB/TJB 84/1543		OR487570	SWS	4M	158	201	8.34	8.17	1230	71.0
891814 SAP SIB/MON SIB		OR487316	SWS	3M	140	181	8.71	8.54	1230	69.0
891815 A76102S-1-2/ID000134		ID367	HRS	5H						
891816 A76102S-1-2/ID000134		ID369	HRS	5H						
891817 ID000190/ID001388		ID379	SWS	1M						
891818 STERLING/BLISS		ID415	SWS	2M	87	118	9.35	9.14	1265	72.0
891819 A73249S-11331-1/VEERY'S		ID416	SWS	2M	101	143	9.36	9.13	1305	75.0
891820 ID000182/FIELDWIN		ID417	SWS	2M	117	141	9.05	8.92	1280	74.0
891821 ID000204/ID000134		ID419	HRS	4H	145	220	8.80	8.54	1240	70.0
891822 A7612S-2/A75141S-2-1		ID420	HRS	5H						
891823 UT 77M1054-1777/906R		UT580646	HRS	3H						
891824 RICK/UT 78S 147-125		UT613960	HRS	3H						
891825 UT78S 147-209/906R		UT2464	HRS	5H						

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ID, WA

LABNUM	VARIETY	IDNO	CLASS	WTIN	NOSCOR	FABSC 3/	FPEAK	FSTAB	BABS 1/	BABSC 5/
891796 MCKAY		C117903	HRS			60.4	6.0	11.1	61.9	62.0
891797 FEDERATION		C14734	SWS	366	77					
891798 OMENS		C117904	SWS	373	79					
891799 PENAWAMA		WA6920	SWS	373	81					
891800 SPILLMAN		PI506350	HRS			65.2	6.3	5.3	63.0	62.4
891801 WAKANZ		PI506352	SWS	377	78					
891802 K7205078/C114193, S65		WA7326	HRS			61.1	11.1	18.9	65.4	64.4
891803 K78504/K74129-33//K7806645, N25		WA7176	SWS	370	75					
891804 MINIVET S, CM37705K		ORS8510	HRS			65.7	8.0	7.7	63.1	62.5
891805 K7400315/PTM70S.47		WA7496	SWS	333	70					
891806 COMBIRD"S"/5/MC/BJO 66/4//TZPP/SN64		ID341	HRS			62.7	12.6	15.7	65.3	62.9
891807 BRH/3/11-60-101//TZPP/SN 64/4		ID366	HRS			62.6	10.9	19.1	65.8	64.3
891808 WYNNE/CA000353		UT743	HRS			64.0	4.5	8.2	63.9	63.6
891809 WYNNE/CA000353		UT817	HRS			63.7	6.9	4.7	62.9	63.3
891810 WYNNE/CA000353		UT884	HRS			63.7	6.5	9.3	62.3	62.6
891811 HDM00004/NK000751		WA7493	HRS			62.6	8.5	8.7	63.1	62.6
891812 CORVALLIS DUAL PURPOSE SEL.		OR487503	SWS	327	75				57.7	58.7
891813 EMU SIB/TJB 84/1543		OR487570	SWS	336	73				56.2	57.7
891814 SAP SIB/MON SIB		OR487316	SWS	334	72					
891815 A76102S-1-2/ID000134		ID367	HRS			67.4	8.2	13.7	64.4	64.8
891816 A76102S-1-2/ID000134		ID369	HRS			65.7	13.3	18.5	66.1	65.0
891817 ID000190/ID001388		ID379	SWS	352	73					
891818 STERLING/BLISS		ID415	SWS	338	80					
891819 A73249S-11331-1/VEERY'S'		ID416	SWS	338	72					
891820 ID000182/FIELDWIN		ID417	SWS	349	76					
891821 ID000204/ID000134		ID419	HRS			66.6	10.2	13.1	66.2	64.8
891822 A7612S-2/A75141S-2-1		ID420	HRS			66.7	10.2	14.8	66.4	66.5
891823 UT 77W1054-1777/906R		UT580646	HRS			64.2	8.2	10.0	63.1	64.0
891824 RICK/UT 78S 147-125		UT613960	HRS			65.4	9.5	8.6	63.6	64.2
891825 UT78S 147-209/906R		UT2464	HRS			62.5	10.4	12.8	64.1	63.9

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LABNUM	VARIETY	IDNO	CLASS	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
891796 MCKAY								
891797 FEDERATION		C117903	HRS	3.6	945	951	3	
891798 OWENS		C14734	SWS					
891799 PENAWAVA		C117904	SWS					
891800 SPILLMAN		WA6920	SWS					
		P1506350	HRS	2.8	950	913	3	
891801 WAKANZ								
891802 K7205078/C114193, S65		P1506352	SWS					
891803 K78504/K74129-33//K7806645, N25		WA7326	HRS	6.0	925	863		4 LONG M-TIME, P-LVOL, Q-S-BCRGR
891804 MINIVET S, CM37705K		WA7176	HRS					Q-FYELD, P-FASH, P-MSCOR, Q-COD1
891805 K7400315/PTW70S.47		OKS8510	HRS	3.2	875	838		4 Q-FYELD, P-LVOL, Q-S-BCRGR
		WA7496	SWS					P-FASH, Q-MSCOR, Q-COD1, P-NOSCOR
891806 COMBIRD"SU"/5/MC/BJO 66/4//TZPP/SN64								
891807 BRH/3/11-60-101//TZPP/SN 64/4		ID341	HRS	4.1	1035	886		2 P-Q-LVOL
891808 WYNNE/CA000353		ID366	HRS	5.0	985	892		3 Q-LVOL
891809 WYNNE/CA000353		UT743	HRS	2.8	935	916		4 Q-S-BCRGR
891810 WYNNE/CA000353		UT817	HRS	2.9	925	950		4 Q-S-BCRGR
		UT884	HRS	2.9	910	929		4 Q-S-BCRGR
891811 HDM00004/NK000751								
891812 CORVALLIS DUAL PURPOSE SEL.		WA7493	HRS	3.2	1005	974		4 Q-S-BCRGR
891813 EMU SIB/TJB 84/1543		OR487503	SWS	3.3	910	970		3 Q-FYELD, P-MSCOR, P-COD1, P-SCSOR
891814 SAP SIB/MON SIB		OR487570	SWS	3.1	880	970		4 Q-FYELD, P-COD1, Q-SCSOR, Q-NOSCOR
891815 A76102S-1-2/ID000134		OR487316	SWS					P-FYELD, P-MSCOR, P-COD1, P-SCSOR,
		ID367	HRS	3.7	920	945	3	
891816 A76102S-1-2/ID000134								
891817 ID000190/ID001388		ID369	HRS	4.2	915	847		3 Q-FYELD, P-LVOL
891818 STERLING/BLISS		ID379	SWS					Q-SCSOR, Q-NOSCOR
891819 A73249S-11331-1/VEERY'S		ID415	SWS					
891820 ID000182/FIELDWIN		ID416	SWS					Q-NOSCOR
		ID417	SWS					P-COD1, P-Q-SCSOR
891821 ID000204/ID000134								
891822 A7612S-2/A75141S-2-1		ID419	HRS	2.9	910	823		3 P-FYELD, P-LVOL
891823 UT 7741054-1777/906R		ID420	HRS	4.3	885	891		2 Q-FYELD, Q-LVOL
891824 RICK/UT 78S 147-125		UT580646	HRS	4.0	915	971		2 P-FYELD
891825 UT78S 147-209/906R		UT613960	HRS	3.4	950	987		2
		UT2464	HRS	4.1	985	973		2 Q-FYELD

* Q-S-BCRGR

** Q-NOSCOR

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LABNUM	VARIETY	IDNO	CLASS	TWT	WPROT 1/	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/
891826	JUP/BJY.S//DOVE.S	OR487355	HRS	60.4	14.7	69.5	0.38	81.2	12.9	67.2
891827	CT.S	6/OR487456	HRS	61.6	13.2	72.0	0.39	85.5	11.5	66.6
891828	AGA/6*1YR	OR487475	HRS	58.9	13.6	70.4	0.36	84.1	12.1	64.5
891829	SN64/HN4//REX/3/EDCH/MEX/4/SLS.S	OR487400	HRS	62.8	12.8	71.2	0.37	85.5	11.7	65.5
891830	KLASIC	NKF8022	HWS	61.0	13.3	71.2	0.36	84.7	11.4	63.8
891831	SERRA	UC638	HRS	60.5	12.8	72.2	0.38	85.9	11.4	61.1

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LABNUM	VARIETY	IDNO	CLASS	MTYPE	VISC	VISCC 4/	CODI	CODIC 4/	CAVOL	SCSOR
891826	JUP/BJY.S//DOVE.S	OR487355	HRS	4H						
891827	CT.S	OR487456	HRS	4H						
891828	AGA/6*1YR'	OR487475	HRS	3H						
891829	SN64/HN4//REX/3/EDCH/MEX/4/SLS.S	OR487400	HRS	5H						
891830	KLASIC	NKF8022	HWS	6H						
891831	SERRA	UC638	HRS	5H						

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LABNUM	VARIETY	IDNO	CLASS	WTIN	NOSCOR	FABSC 3/	FPEAK	FSTAB	BABS 1/	BABSC 3/
891826	JUP/BJY.S//DOVE.S	OR487355	HRS			64.7	7.2	14.0	68.8	67.9
891827	CT.S	OR487456	HRS			63.3	6.3	12.7	66.8	67.3
891828	AGA/6*1YR1	OR487475	HRS			62.1	9.4	12.6	65.3	65.2
891829	SN64/HN4//REX/3/EDCH/MEX/4/SLS.S	OR487400	HRS			67.0	14.0	16.3	65.9	66.2
891830	KLASIC	NKF8022	HWS			61.8	17.4	27.2	63.9	64.5
891831	SERRA	UC638	HRS			57.6	9.8	26.5	61.2	61.8

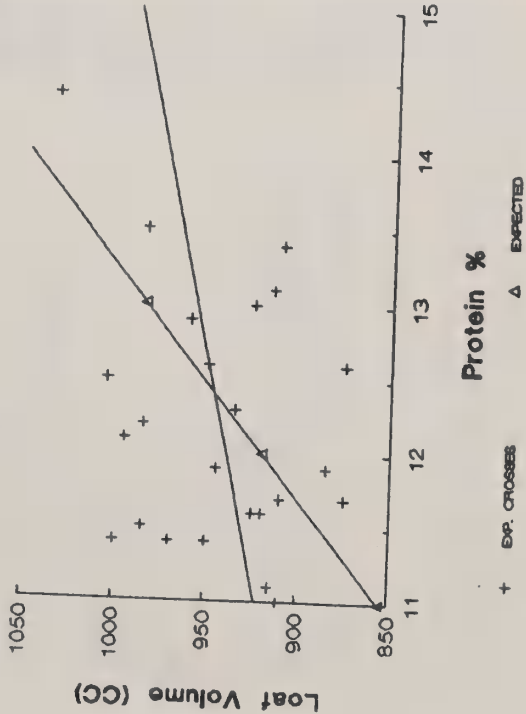
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ID, WA

LABNUM	VARIETY	IDNO	CLASS	MTIME	LVOL	LVOLC 4/	BCRGR	RMKS
891826	JUP/BJY.S//DOVE.S	OR487355	HRS	3.9	960	904	2	Q-FYELD.Q-LVOL
891827	CT.S	OR487456	HRS	3.9	985	1016	2	
891828	AGA/6**YR1	OR487475	HRS	3.6	995	989	3	
891829	SN64/HN4//REX/3/EDCH/MEX/4/SLS.S	OR487400	HRS	4.5	875	894	4	Q-LVOL
891830	KLASIC	NKF8022	HWS	6.1	1000	1037	2	
891831	SERRA	UC638	HRS	5.8	970	1007	2	

COMMENTS: This nursery averaged 12% flour protein. The major deficiencies of this nursery were poor to questionable flour yield and poor to questionable loaf volume of the hard wheat selections. Loaf volumes of these hard wheat selections were not up to that expected for their flour protein level. See "Remarks" for other deficiencies. Two selections were footnoted as having promising overall quality characteristics (ID415 and OR487456).

LOAF VOLUME VS PROTEIN



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ID, MT, OR, WA

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	MABSC	MTYPE
						1/		1/	3/	
891832	KHARKOF									
891833	WANSER		HRW	61.5	69.2	0.40	80.0	12.6	62.6	2H
891834	11-60-156/C114107//11/4/HRN	C113844	HRW	63.0	72.3	0.37	86.9	12.0	62.7	4H
891835	UT75079/CREST56//TX65A1268	ID332	HRW	62.3	72.5	0.35	88.1	12.6	63.0	3H
891836	LIND SEL. FRC/SRG (FIELD CROSS)	MT79125	HRW	61.0	68.9	0.31	84.7	12.0	63.2	4H
		WA7523	HRW	60.9	69.2	0.38	81.9	11.4	62.3	3H
891837	PMF//CNO S/GLL									
891838	MANNING/BEZOSTAJA-1	ORCR8601	HRW	63.5	68.7	0.34	82.1	11.5	63.3	3H
891839	ABERDEEN SEL.	UT156751	HRW	64.8	69.2	0.33	83.8	11.0	63.5	3H
891840	ABERDEEN SEL.	ID352	HRW	63.6	67.3	0.36	78.7	12.1	64.9	4H
891841	N7701501//V72044/CERCO, N8506401	ID353	HRW	62.5	69.9	0.35	83.9	11.0	66.2	5H
		WA7619	HRW	63.3	66.8	0.34	79.7	11.1	65.2	5H
891842	N7701501//V72044/CERCO, N8506402	WA7620	HRW	62.2	66.5	0.34	78.7	11.2	65.7	5H
891843	LCO/FRD//NE69559/WNK	MT8039	HRW	61.2	69.2	0.35	81.3	11.6	66.7	5H
891844	HANSEL/USSR 2109-36	UT157140	HRW	62.6	72.5	0.34	87.1	11.7	64.8	3H
891845	TJ8788-1089/ALDAN	ORCR8602	HRW	60.7	67.5	0.37	77.9	11.3	64.5	6H
891846	M1223-30-1D(M176-77-S29)/ALD	ORCR8603	HRW	61.7	69.4	0.37	80.9	11.4	61.1	2H
891847	TAST/TORIM									
891848	ND/P101/BUHO	ORCR8608	HRW	63.3	69.2	0.35	82.3	11.2	61.8	3H
891849	TJ8368-251/BUIC	OR830282	HRW	60.7	69.3	0.41	78.6	11.5	61.5	2H
891850	HARD WHITE 1987 ML	OR832306	HRW	60.2	71.0	0.39	82.6	11.0	60.0	1H
891851	VORO/MARIS NIMROD, 85B-839	WA7626	HRW	63.0	67.8	0.38	80.0	11.6	64.2	4H
		OR8522	HRW	59.6	65.4	0.37	75.4	11.5	62.1	3H
891852	ABERDEEN SEL.									
891853	ABERDEEN SEL.	ID326	HRW	61.2	68.1	0.34	80.6	10.7	61.6	2H
891854	ABERDEEN SEL.	ID364	HRW	61.9	69.6	0.37	81.9	12.3	64.5	4H
891855	CERCO/HATTON	ID381	HRW	62.2	68.4	0.35	80.7	11.4	60.2	3H
891856	286011/ANDREWS	WA7646	HRW	64.5	69.2	0.37	81.0	10.6	62.2	7M
		WA7647	HRW	62.9	70.1	0.37	82.6	11.5	63.9	4H
891857	P1173467/GNS/3/BNK//MNT/BURT/4									
891858	HATTON SIB/3/BEZ/C113438/BURT 4	WA7648	HRW	60.8	68.3	0.40	78.5	11.3	64.2	5H
891859	N7000063/K71056//UT927124	WA7649	HRW	62.1	69.1	0.38	81.5	9.9	62.2	6M
891860	MNG/6/MT C-61-9/BGR/5/MN/4/DLM/3/	WA7650	HRW	63.1	69.7	0.39	81.3	11.4	64.9	4H
891861	MNG/SANSON	UT160477	HRW	62.7	67.5	0.37	79.5	11.3	64.5	5H
		UT160719	HRW	62.2	66.6	0.38	77.7	11.6	64.7	5H

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	FABS
891832 KHARKOF		CI1442	HRW	63.9	62.3	2.0	915	816	4	66.8
891833 WANSER		CI13844	HRW	63.4	62.4	3.6	930	868	3	64.0
891834 11-60-156/CI14107//IT/4/NRW		ID332	HRW	64.3	62.7	2.6	845	746	5	63.9
891835 UT75079/CREST56//TX65A1268		MT79125	HRW	63.9	62.9	2.7	925	863	3	64.7
891836 LIND SEL. FRC/SRG (FIELD CROSS)		WA7523	HRW	62.4	62.0	3.0	860	835	4	66.1
891837 PMF//CNO S/GLL		ORCR8601	HRW	63.5	63.0	3.1	880	849	5	63.1
891838 MANNING/BEZOSTAJA-1		UT156751	HRW	64.2	64.2	3.6	855	855	5	64.7
891839 ABERDEEN SEL.		ID352	HRW	67.2	66.1	3.3	895	827	3	71.2
891840 ABERDEEN SEL.		ID353	HRW	66.9	66.9	4.0	820	820	5	68.0
891841 N7701501//V72044/CERCO, N8506401		WA7619	HRW	66.0	65.9	4.1	880	874	4	65.3
891842 N7701501//V72044/CERCO, N8506402		WA7620	HRW	66.6	66.4	4.6	890	878	3	65.6
891843 LCOJ/FRD//NE69559/UNK		MT8039	HRW	68.5	67.9	4.2	940	903	4	66.5
891844 HANSEL/USSR 2109-36		UT157140	HRW	66.7	66.0	3.3	880	837	5	67.1
891845 TJB788-1089/ALDAN		ORCR8602	HRW	66.0	65.7	4.6	820	801	6	65.9
891846 M1223-30-1D(M176-77-S29)/ALD		ORCR8603	HRW	62.2	61.8	2.5	800	775	7	67.0
891847 TAST/TORIM		ORCR8608	HRW	62.7	62.5	2.4	850	838	5	63.9
891848 ND/P101/BUHO		OR830282	HRW	61.7	61.2	2.1	835	804	6	65.0
891849 TJB368-251/BUC		OR832306	HRW	59.7	59.7	2.0	775	775	8	64.5
891850 HARD WHITE 1987 ML		WA7626	HRW	66.0	65.4	3.1	960	923	4	63.9
891851 VORO/MARIS NIMROD, 858-839		OR8522	HRW	64.3	63.8	3.3	825	794	4	65.4
891852 ABERDEEN SEL.		ID326	HRW	63.0	63.3	2.5	815	834	6	63.8
891853 ABERDEEN SEL.		ID364	HRW	66.5	65.2	3.3	910	829	4	66.3
891854 ABERDEEN SEL.		ID381	HRW	61.8	61.4	2.3	930	905	4	67.4
891855 CERCO/HATTON		WA7646	HRW	62.5	62.9	3.8	790	815	5	86.0
891856 286011/ANDREWS		WA7647	HRW	65.6	65.1	3.5	860	829	5	66.4
891857 P1173467/GNS/3/BNK//MNT/BURT/4		WA7648	HRW	66.7	66.4	4.3	830	811	5	65.7
891858 HATTON SIB/3/BEZ/CI13438/BURT 4		WA7649	HRW	62.3	63.4	3.6	800	868	6	61.9
891859 N7000063/K71056//UT927124		WA7650	HRW	67.0	66.6	3.7	870	845	5	68.1
891860 MNG/6/MT C-61-9/BGR/5/NN/4/DLM/3/		UT160477	HRW	68.0	67.7	4.5	875	856	5	67.4
891861 MNG/SAWSON		UT160719	HRW	66.5	65.9	4.3	950	913	4	67.7

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LABNUM	VARIETY	IDNO	CLASS	FABSC 3/	FPEAK	FSTAB	RMKS
891832	KHARKOF	C11442	HRW	65.2	5.4		
891833	WANSER	C113844	HRW	63.0	9.7	4.5	
891834	11-60-156/C114107//1T/4/WRN	ID332	HRW	62.3	7.3	15.0	
891835	UT75079/CREST56//TX65A1268	MT79125	HRW	63.7	7.9	7.8 P-LVOL, Q-BCRGR	
891836	LIND SEL. FRC/SRG (FIELD CROSS)	WA7523	HRW	65.7	7.1	19.7 Q-FYELD	
891837	PMF//CNO S/GLL	ORCR8601	HRW	62.6	8.0	7.3 Q-FYELD, Q-LVOL, Q-S-BCRGR	
891838	MANNING/BEZOSTAJA-1	UT156751	HRW	64.7	13.3	10.5 P-FYELD, Q-BCRGR	
891839	ABERDEEN SEL.	ID352	HRW	70.1	11.3	5.6 Q-FYELD, Q-BCRGR	
891840	ABERDEEN SEL.	ID353	HRW	68.0	8.6	10.6 P-FYELD, Q-LVOL	
891841	N7701501//V72044/CERCO, N8506401	WA7619	HRW	65.2	9.2	15.4 Q-LVOL, Q-BCRGR	
891842	N7701501//V72044/CERCO, N8506402	WA7620	HRW	65.4	13.5	17.6 P-FYELD, Q-S-BCRGR	
891843	LCO/FRD//NE69559/UNK	MT8039	HRW	65.9	12.4	15.0 P-FYELD	
891844	HANSEL/USSR 2109-36	UT157140	HRW	66.4	8.3	26.3 Q-FYELD, Q-S-BCRGR	
891845	TJ8788-1089/ALDAN	ORCR8602	HRW	65.6	12.6	10.6 Q-LVOL, Q-BCRGR	
891846	M1223-3D-1D(M176-77-S29)/ALD	ORCR8603	HRW	66.6	6.3	31.7 P-FYELD, P-LVOL, Q-BCRGR	
891847	TAST/TORIM	ORCR8608	HRW	63.7	6.4	4.1 Q-FYELD, P-LVOL, Q-U-BCRGR	
891848	ND/P101/BUHO	OR330282	HRW	64.5	3.2	10.4 Q-FYELD, Q-LVOL, Q-BCRGR	
891849	TJ8368-251/BUIC	OR332306	HRW	64.5	4.1	4.4 Q-FYELD, P-MSCOR, P-MTIME, P-LVOL, Q-BCRGR	
891850	HARD WHITE 1987 ML	WA7626	HRW	63.3	6.6	3.6 Q-MSCOR P-MTIME, P-LVOL, P-BCRGR	
891851	VORO/MARIS NIMROD, 858-839	OR8522	HRW	64.9	7.5	12.6 P-FYELD, Q-S-BCRGR	
891852	ABERDEEN SEL.	ID326	HRW	64.1	6.8	10.8 VP-FYELD, P-LVOL, Q-S-BCRGR	
891853	ABERDEEN SEL.	ID364	HRW	65.0	7.7	2.2 P-FYELD Q-LVOL, Q-BCRGR	
891854	ABERDEEN SEL.	ID381	HRW	67.0	6.4	3.8 Q-FYELD, Q-LVOL, Q-S-BCRGR	
891855	CERCO/HATTON	WA7646	HRW	86.4	12.4	17.2 P-FYELD, Q-MTIME, Q-S-BCRGR	
891856	286011/ANDREWS	WA7647	HRW	65.9	9.7	14.0 Q-FYELD, Q-LVOL, Q-BCRGR	
891857	PI173467/GNS/3/BNK//MNT/BURT/4	WA7648	HRW	65.4	11.0	14.7 Q-FYELD, Q-LVOL, Q-BCRGR	
891858	HATTON SIB/3/BEZ/C113438/BURT 4	WA7649	HRW	63.0	9.0	21.1 P-FYELD, Q-LVOL, Q-BCRGR	
891859	N7000063/K71056//UT927124	WA7650	HRW	67.7	9.9	17.2 P-FYELD, Q-BCRGR	
891860	MNG/6/MT C-61-9/BGR/5/WN/4/DLM/3/	UT160477	HRW	67.1	14.9	11.5 Q-FYELD, Q-BCRGR	
891861	MNG/SAMSON	UT160719	HRW	67.1	18.2	24.2 P-FYELD, Q-BCRGR	
						19.0 P-FYELD, Q-S-BCRGR	

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/	MTYPE
891862	BEZ-1/MNG/3/HNL//IT/PI178210	UT162334	HRW	61.8	71.4	0.36	86.0	11.7	63.1	3H
891863	QUANTUM HYB 542	QTHYB542	HRW	62.7	66.0	0.36	77.9	11.4	63.7	3H
891864	QUANTUM HYB 562	QTHYB562	HRW	62.2	66.2	0.36	77.3	11.2	63.8	4H
891865	CNN//7*LEE/TF/5/SM4/4/BURT/3/R/R	ID361	HRW	61.5	66.8	0.37	78.9	11.2	62.9	3H
891866	HGL/RGR//A65249W-12-11-13/A65326W	ID362	HRW	63.2	70.8	0.38	84.5	11.0	64.6	6H
891867	PMF//CNO S/GLL	OR830027	HRW	63.5	68.1	0.35	81.5	11.6	63.9	3H
891868	CNO/INIA/HN7/3/CC//CAL/SR	OR831134	HRW	65.9	67.7	0.36	80.0	10.7	65.4	4H
891869	BPR 689-71/T1	OR8718	HRW	63.7	72.3	0.34	88.0	11.1	64.2	3H

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LABNUM	VARIETY	IDNO	CLASS	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR	FABS
891862	BEZ-1/MNG/3/HNL//IT/PI178210	UT162334	HRW	64.0	63.3	3.2	860	817	5	62.6
891863	QUANTUM HYB 542	QTHYB542	HRW	65.3	64.9	2.9	910	885	4	65.7
891864	QUANTUM HYB 562	QTHYB562	HRW	65.2	65.0	3.3	920	908	3	66.2
891865	CNN//7*LEE/TF/5/SM4/4/BURT/3/R/R	ID361	HRW	64.3	64.1	3.7	865	851	4	64.4
891866	HGL/RGR//A65249N-12-11-13/A65326W	ID362	HRW	65.8	65.8	5.2	850	850	4	64.6
891867	PMF//CNO S/GLL	OR830027	HRW	65.7	65.1	3.3	855	813	5	67.5
891868	CNO/IN1A/HW7/3/CC//CAL/SR	OR831134	HRW	66.3	66.6	3.4	835	854	4	67.0
891869	BPR 689-71/TI	OR8718	HRW	65.5	65.4	3.4	890	884	4	65.8

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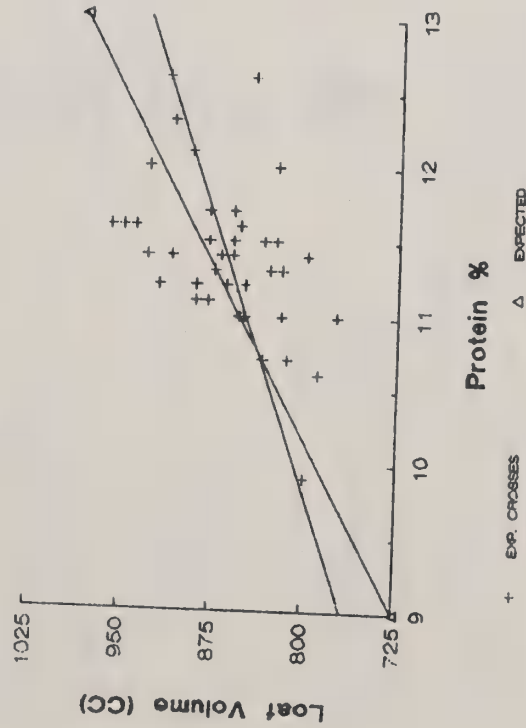
ID, MT, OR, WA

LABNUM	VARIETY	IDNO	CLASS	FABSC 3/	FPEAK	FSTAB	RMKS
891862	BEZ-1/MNG/3/HNL//1T/PI178210	UT162334	HRW	61.9	8.3	13.4	Q-LVOL Q-BCRGR
891863	QUANTUM HYB 542	QTHYB542	HRW	65.3	8.5	15.7	P-FYELD,Q-S-BCRGR
891864	QUANTUM HYB 562	QTHYB562	HRW	66.0	6.0	17.2	P-FYELD
891865	CNN//7*LEE/TF/5/SH4/4/BURT/3/R/R	ID361	HRW	64.2	10.0	17.3	P-FYELD,Q-S-BCRGR
891866	HGL/RGR//A65249W-12-11-13/A65326W	ID362	HRW	64.6	18.6	24.9	Q-S-BCRGR
891867	PHF//CNO S/GLL	OR830027	HRW	66.9	6.5	15.3	P-FYELD,Q-LVOL,Q-BCRGR
891868	CNO/INIA/HN7/3/CC//CAL/SR	OR831134	HRW	67.3	7.6	13.0	P-FYELD,Q-S-BCRGR
891869	BPR 689-71/11	OR8718	HRW	65.7	8.1	16.8	Q-S-BCRGR

COMMENTS:

The two check varieties (Kharkof and Wanser) had a significant difference in flour yield and milling score. All selections were compared to Wanser for milling properties, thus some selections which had poor to questionable milling properties (flour yield, milling score) may not show any significant difference from Kharkof which had less flour yield than Wanser. Kharkof and Wanser had bread crumb grains which would not be considered to be fully satisfactory. Loaf volume of several selections were not up to what was expected for their flour protein level. The major deficiencies were: poor to questionable flour yields and loaf volumes, along with questionable bread crumb grain. See "Remarks".

LOAF VOLUME VS PROTEIN



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ID, OR, WA

LABNUM	VARIETY	IDNO	CLASS	TWT	WPROT 1/	FYIELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/
891870	KHARKOF	C11442	HRW	62.3	11.9	68.3	0.36	79.9	10.8	59.5
891871	ELGIN	C111755	CLUB	61.2	11.0	74.3	0.40	86.3	9.2	51.4
891872	MORO	C113740	CLUB	60.5	10.7	72.9	0.40	85.5	9.3	52.2
891873	NUGATINES	C113968	SWW	63.0	10.7	69.8	0.37	81.1	8.7	53.0
891874	STEPHENS	C117596	SWW	60.0	10.4	69.6	0.39	79.6	9.3	53.6
891875	TRES	C117917	CLUB	61.9	9.9	72.9	0.39	85.3	8.5	50.1
891876	MADSEN	WA7163	SWW	61.7	10.7	72.3	0.40	83.4	9.2	52.6
891877	HYAK	WA7166	CLUB	60.8	11.2	73.2	0.38	86.8	9.1	53.1
891878	HYSLOP/CERCO, H-308	OR843	CLUB	62.8	11.5	66.8	0.42	74.4	9.1	53.4
891879	HYSLOP/YAYLA//63-112-66-4/3	OR845	SWW	62.0	11.2	69.1	0.36	80.7	8.4	55.5
891880	DAWS/SW4//MDM//SM11, FW 81454-301	ORFW301	SWW	60.1	10.4	70.4	0.39	79.4	9.2	52.5
891881	TJB259-83/3/CD/P101//DRC	ORCW8521	SWW	61.7	10.5	68.5	0.39	77.9	8.7	54.2
891882	YMH/MCD/2/T. SPELTA/3/SU92/RDL	ORF75336	SWW	61.1	10.1	69.2	0.39	78.5	8.5	53.6
891883	LUKE/VH67375//VPM/MOS, VH082258	WA7529	SWW	60.8	9.3	74.1	0.39	85.9	8.0	53.2
891884	TRES COMPOSITE CROSS	WA7526	CLUB	61.5	10.5	73.8	0.40	85.1	8.6	49.1
891885	TRES MULTILINE B6	WA7527	CLUB	61.9	11.0	74.8	0.40	86.8	8.3	49.4
891886	PAHA//SEL.72-330/DAWS	OR855	CLUB	62.5	10.3	73.1	0.40	84.4	8.9	49.0
891887	FW73830-002/3/MLD/2/RBS/1523-DC	ORFW205B19	SWW	59.6	10.8	73.4	0.39	84.1	8.6	51.9
891888	KVZ/JUACA,F1//KVZ	ORCW8632	SWW	60.4	11.1	73.3	0.40	83.3	9.0	52.3
891889	SRG/SPN	ORCW8635	SWW	61.9	10.5	72.5	0.42	81.6	8.8	52.7
891890	CLEO/PCH//ZZ	OR830801	SWW	60.4	11.0	72.7	0.42	81.9	8.8	53.1
891891	VPM/MS421//VH66354//WA5827//WA6241	WA7621	CLUB	62.7	10.1	72.5	0.39	84.5	8.9	51.7
891892	TYEE/ROAZON/TRES	WA7622	CLUB	60.5	10.6	72.7	0.40	84.2	8.3	50.4
891893	VPM/MS951/PECK/SPN/DAWS	WA7624	SWW	58.4	10.7	74.3	0.40	84.7	9.4	53.2
891894	WA7163 SIB	WA7625	SWW	60.3	10.5	73.0	0.39	82.8	9.0	53.6
891895	WA096910, MARIS HUNTSMAN/VH74521	WA7627	SWW	62.2	10.6	71.1	0.39	82.0	9.1	54.1
891896	SPN2*/THUL III	ORFW83115	SWW	60.8	10.3	72.5	0.40	81.9	8.4	52.6
891897	WA6581//BBE/AM70207, VD084042	WA7661	CLUB	62.4	9.8	71.5	0.35	83.4	8.7	54.7
891898	LUKE/DAWS//HILL 81, VH086206	WA7662	SWW	61.2	9.7	71.2	0.34	84.3	8.5	53.9
891899	MARKSMAN/DAWS, VH085208	.	SWW	59.6	9.5	71.9	0.34	84.6	8.3	52.7

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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ID, OR, WA

LABNUM	VARIETY	IDNO	CLASS	MTYPE	VISC	VISCC 4/	CODI	CODIC 4/	CAVOL	SCSOR
891870	KHARKOF	C11442	HRW	2H	220	152	7.72	7.87	965	46.0
891871	ELGIN	C111755	CLUB	2M	73	70	8.79	8.80	1265	70.0
891872	MORO	C113740	CLUB	2M	89	83	9.16	9.18	1285	77.0
891873	NUGAINES	C113968	SWW	2M	82	88	9.09	9.05	1240	73.0
891874	STEPHENS	C117596	SWW	2M	70	66	8.85	8.88	1270	74.0
891875	TRES	C117917	CLUB	1M	44	50	8.92	8.89	1285	76.0
891876	MADSEN	WA7163	SWW	2M	64	61	8.61	8.63	1210	70.0
891877	HYAK	WA7166	CLUB	4L	101	98	8.69	8.69	1275	75.0
891878	HYSLOP/CERCO, H-308	OR843	CLUB	4M	93	90	7.72	7.73	1080	59.0
891879	HYSLOP/YAYLA//63-112-66-4/3	OR845	SWW	3L	94	110	8.39	8.32	1205	67.0
891880	DAWS/SW4//MDM//SM11, FW 81454-301	ORFW301	SWW	2M	78	74	8.80	8.82	1230	71.0
891881	TJ8259-83/3/CD/P101//DRC	ORCW8521	SWW	2M	77	83	8.40	8.37	1160	66.0
891882	YMH/MCD/2/T.SPELTA/3/SU92/RDL	ORF75336	SWW	2L	53	60	8.39	8.33	1295	77.0
891883	LUKE/VH67375//VPM/MOS, VH082258	WA7529	SWW	2L	56	73	8.96	8.85	1260	69.0
891884	TRES COMPOSITE CROSS	WA7526	CLUB	1M	53	58	8.84	8.81	1215	69.0
891885	TRES MULTILINE 85	WA7527	CLUB	1M	53	64	8.86	8.81	1210	69.0
891886	PAHA//SEL.72-330/DAWS	OR855	CLUB	2M	69	70	8.80	8.79	1140	63.0
891887	FW73830-002/3/MLD/2/RBS/1523-DC	ORFW205B19	SWW	2L	63	70	9.19	9.14	1275	75.0
891888	KVZ/JUACA, F1//KVZ	ORCW8632	SWW	1M	53	53	8.85	8.85	1220	71.0
891889	SRG/SPN	ORCW8635	SWW	3L	55	58	8.81	8.79	1150	64.0
891890	CLEO/PCH//ZZ	OR830801	SWW	2M	94	99	8.60	8.58	1180	68.0
891891	VPM/MS421//VH66354/WA5827/WA6241	WA7621	CLUB	1M	56	57	8.68	8.67	1190	67.0
891892	TYEE/ROAZON/TRES	WA7622	CLUB	2L	65	78	8.59	8.54	1290	75.0
891893	VPM/MS951/PECK/SPN/DAWS	WA7624	SWW	3M	79	72	8.64	8.68	1270	75.0
891894	WA7163 SIB	WA7625	SWW	2M	71	71	8.70	8.70	1230	72.0
891895	WA096910, MARIS HUNTSMAN/VH74521	WA7627	SWW	2M	67	66	8.64	8.65	1240	72.0
891896	SPN2*/THUL III	ORFW83115	SWW	1M	55	65	8.66	8.60	1225	69.0
891897	WA6581//BBE/AM70207, VD084042	WA7661	CLUB	2M	69	75	8.81	8.79	1305	78.0
891898	LUKE/DAWS//HILL 81, VH086206	WA7662	SWW	2L	71	81	8.92	8.87	1295	76.0
891899	MARKSMAN/DAWS, VH085208	.	SWW	3L	51	62	8.90	8.82	1255	71.0

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LABNUM	VARIETY	IDNO	CLASS	WTIN	NOSCOR	RMKS
891870	KHARKOF	C11442	HRW	333	70	
891871	ELGIN	C111755	CLUB	360	74	
891872	MORO	C113740	CLUB	350	73	
891873	NUGAINES	C113968	SWW	327	71	
891874	STEPHENS	C117596	SWW	343	72	
891875	TRES	C117917	CLUB	355	74	
891876	MADSEN	WA7163	SWW	344	72	
891877	HYAK	WA7166	CLUB	351	73	
891878	HYSLOP/CERCO, H-308	OR843	CLUB	332	72	VP-FYELD, VP-COD1, VP-SCSOR
891879	HYSLOP/YAYLA//63-112-66-4/3	OR845	SWW	358	74	Q-FYELD, P-COD1, P-SCSOR
891880	DAVS/SM4//MDM//SM11, FW 81454-301	ORFW301	SWW	354	73	Q-MSCOR, Q-SCSOR
891881	TJ8259-83/3/CD/P101//DRC	ORCW8521	SWW	338	74	P-FYELD, P-COD1, VP-SCSOR
891882	YMH/MCD/2/T.SPELTA/3/SU92/RDL	ORF75336	SWW	347	73	Q-FYELD, P-COD1
891883	LUKE/VH67375//VPM/MOS, VHO82258	WA7529	SWW	326	73	Q-SCSOR
891884	TRES COMPOSITE CROSS	WA7526	CLUB	351	73	Q-SCSOR
891885	TRES MULTILINE 86	WA7527	CLUB	354	73	Q-SCSOR
891886	PAHA//SEL.72-330/DAWS	OR855	CLUB	348	75	VP-SCSOR
891887	FW73830-002/3/MLD/2/RBS/1523-DC	ORFW205B19	SWW	337	69	Q-NOSCOR
891888	KVZ/JUACA, F1//KVZ	ORCW8632	SWW	338	71	Q-SCSOR
891889	SRG/SPN	ORCW8635	SWW	322	73	VP-SCSOR
891890	CLEO/PCH//ZZ	OR830801	SWW	319	71	Q-COD1, P-SCSOR
891891	VPM/MS421//VH66354//WA5827//WA6241	WA7621	CLUB	337	71	Q-COD1, P-SCSOR
891892	TYEE/ROAZON/TRES	WA7622	CLUB	331	71	P-COD1
891893	VPM/MS951//PECK/SPN/DAWS	WA7624	SWW	327	71	Q-COD1
891894	WA7163 SIB	WA7625	SWW	330	70	Q-NOSCOR
891895	WA096910, MARIS HUNTSMAN/VH74521	WA7627	SWW	340	71	Q-COD1
891896	SPN2*/THUL III	ORFW83115	SWW	327	72	Q-COD1, Q-SCSOR
891897	WA6581//BBE/AM70207, VD084042	WA7661	CLUB	331	71	Q-FYELD
891898	LUKE/DAWS//HILL 81, VHO86206	WA7662	SWW	351	73	
891899	MARKSMAN/DAWS, VHO85208	.	SWW	352	73	Q-SCSOR

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ID, OR, WA

LABNUM	VARIETY	IDNO	CLASS	TWT	WPROT 1/	FYELD	FASH 1/	MSCOR	FPROT 1/	MABSC 3/
891900	LEWJAIN/WA6813, VH872534									
891901	TYEE//COPPELLE/TRES, 8825	WA7665	SWW	63.7	10.0	72.2	0.34	85.0	8.3	54.2
891902	VMP/MOS 951//C113438, 8815	WA7666	CLUB	60.0	9.7	74.4	0.34	88.2	8.4	52.1
891903	69-148/YMH//HYS	OSU21	SWW	59.5	10.3	72.3	0.34	85.8	9.3	53.7
891904	CEBECO 148//CNO//INIA//LFN/3/K	OSU28	SWW	60.4	10.9	68.7	0.37	78.8	8.8	53.4
				61.1	10.3	68.7	0.40	77.1	9.3	53.3
891905	CLEO/PCK//ZZ, F1/4/F1, AVC/3/DJ/BEZ	OR832784	SWW	61.6	11.5	69.8	0.41	77.6	9.5	54.0
891906	TJB842-12919/SPN	OR833725	SWW	60.9	10.7	68.3	0.39	76.6	9.0	52.2
891907	6720-11//MDA38/WRM	OR833765	SWW	59.6	10.5	69.0	0.39	77.3	9.0	54.7

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ID, OR, WA

LABNUM	VARIETY	IDNO	CLASS	MTYPE	VISC	VISCC 4/	CODI	CODIC 4/	CAVOL	SCSOR
891900	LEWJAIN/WA6813, VH872534									
891901	TYEE//COPPELLE/TRES, 8825	WA7665	SWW	3L	72	87	8.96	8.89	1230	70.0
891902	VMP/MOS 951//C113438, 8815	WA7666	CLUB	2L	56	65	8.94	8.89	1210	67.0
891903	69-148/YMH//HYS	OSU21	SWW	3M	109	101	8.86	8.90	1285	75.0
891904	CEBECO 148//CNO//INIA//LFN/3/K	OSU28	SWW	2L	63	66	8.71	8.69	1255	73.0
			SWW	3L	82	76	8.76	8.80	1255	73.0
891905	CLEO/PCK//ZZ, F1/4/F1, AVC/3/DJ/BEZ	OR832784	SWW	3M	100	90	8.77	8.83	1240	71.0
891906	TJB842-12919/SPN	OR833725	SWW	1M	54	54	9.12	9.12	1165	63.0
891907	6720-11//MDA38/WRM	OR833765	SWW	3M	118	118	8.73	8.73	1160	63.0

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ID, OR, WA

LABNUM	VARIETY	IDNO	CLASS	WTIN	NOSCOR	RMKS
891900	LEWJAIN/WA6813, VH872534					
891901	TYEE//COPPELLE/TRES, 8825	WA7665	SWW	342	71	Q-SCSOR
891902	VMP/MOS 951//C113438, 8815	WA7666	CLUB	362	71	P-SCSOR
891903	69-148/YMH//HYS	OSU21	SWW	329	71	
891904	CEBECO 148//CNO//INIA//LFN/3/K	OSU28	SWW	354	72	p-FYELD, Q-COD1
				339	70	P-FYELD, Q-NOSCOR
891905	CLEO/PCK//ZZ, F1/4/F1, AVC/3/DJ/BEZ	OR832784	SWW	344	73	Q-FYELD, P-FASH, P-MSCOR, Q-SCSOR
891906	TJ8842-12919/SPN	OR833725	SWW	347	72	P-FYELD, VP-SCSOR
891907	6720-11//MDA38/WRM	OR833765	SWW	342	72	Q-FYELD, P-MSCOR, Q-COD1, VP-SCSOR

COMMENTS: This nursery averaged 9% flour protein. The major deficiencies were poor to questionable sponge cake scores, cookie diameters and flour yields. See "Remarks" for other deficiencies.

NURSCO 70

WALLA2, PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/ 1	MSCOR	FPROT 1/ 1	FHRD	MABSC 3/ 3
891908 .		68	SWW	60.6	71.3	0.37	88.0	9.7	52	54.3
891909 .		69	SWW	60.3	72.6	0.36	90.3	8.6	43	53.3
891910 .		109	SWW	63.2	72.5	0.33	92.1	9.2	51	54.2
891911 .		112	SWW	64.2	73.1	0.31	94.7	8.4	54	55.2
891912 .		135	SWW	62.0	71.5	0.32	91.5	7.8	42	55.1
891913 .		148	SWW	63.1	72.8	0.34	91.9	9.6	47	54.2
891914 .		151	SWW	61.3	72.4	0.35	90.7	8.2	43	55.3
891915 .		160	SWW	61.8	71.9	0.36	89.5	9.1	43	54.0
891916 .		6/ 165	SWW	62.4	74.0	0.34	93.4	9.2	54	53.7
891917 .		199	SWW	60.1	72.4	0.34	91.4	8.5	50	52.8
891918 .		212	SWW	60.1	67.0	0.33	85.1	7.7	34	55.3
891919 .		214	SWW	61.0	71.5	0.35	89.6	8.4	41	53.9
891920 .		215	SWW	61.1	72.6	0.37	89.8	8.4	59	55.2
891921 .		218	SWW	61.7	70.4	0.32	90.1	8.6	41	55.5
891922 .		220	SWW	60.5	69.0	0.33	87.6	8.6	40	55.3
891923 .		249	SWW	62.2	70.8	0.32	90.6	9.6	45	55.0
891924 .		122	SWW	63.2	70.3	0.33	89.3	7.9	40	53.9
891925 .		128	SWW	63.0	70.5	0.32	90.8	8.8	38	55.2
891926 .		95	SWW	61.9	71.1	0.31	92.1	7.2	40	55.0
891927 .		232	SWW	63.2	69.9	0.35	87.6	7.9	38	56.9
891928 .		231	SWW	63.4	70.9	0.32	90.7	8.0	33	55.9
891929 NUGAINES		115	SWW	64.2	71.3	0.28	93.8	8.1	39	55.9
891930 STEPHENS		116	SWW	62.8	72.5	0.31	94.0	8.7	45	55.7
891931 MADSEN		117	SWW	62.6	73.2	0.31	94.9	9.0	49	55.4
891932 LEWJAIN		118	SWW	63.2	71.6	0.29	93.5	8.6	40	55.2

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 70

WALLA2, PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	MTYPE	RMKS
891908 .		68	SWW	8.60	8.68	4M	Q-FYELD, P-MSCOR, P-COD1
891909 .		69	SWW	9.34	9.29	3L	Q-MSCOR
891910 .		109	SWW	8.76	8.78	2M	Q-COD1
891911 .		112	SWW	8.74	8.67	2M	P-COD1
891912 .		135	SWW	8.77	8.64	3L	Q-FYELD, P-COD1
891913 .		148	SWW	9.24	9.30	2M	
891914 .		151	SWW	9.40	9.31	2M	Q-MSCOR
891915 .		160	SWW	9.04	9.05	1M	Q-MSCOR
891916 .		165	SWW	9.25	9.27	2M	
891917 .		199	SWW	9.16	9.11	2L	
891918 .		212	SWW	8.74	8.60	3L	P-FYELD, P-MSCOR, P-COD1
891919 .		214	SWW	9.02	8.96	2M	Q-MSCOR
891920 .		215	SWW	8.67	8.61	3M	Q-MSCOR, P-COD1
891921 .		218	SWW	8.92	8.88	2M	Q-FYELD, Q-MSCOR, Q-COD1
891922 .		220	SWW	8.96	8.92	2M	P-FYELD
891923 .		249	SWW	9.39	9.45	1M	Q-FYELD
891924 .		122	SWW	9.54	9.42	2L	Q-FYELD, Q-MSCOR
891925 .		128	SWW	9.01	8.99	3M	Q-FYELD
891926 .		95	SWW	8.99	8.79	5L	Q-FYELD, Q-COD1
891927 .		232	SWW	8.85	8.73	3L	P-FYELD, P-COD1
891928 .		231	SWW	9.39	9.28	2M	Q-FYELD, Q-MSCOR
891929 NUGAINES		115	SWW	8.98	8.88	2M	
891930 STEPHENS		116	SWW	9.08	9.04	2M	
891931 MADSEN		117	SWW	9.00	9.00	2M	
891932 LEWJAIN		118	SWW	9.50	9.46	2M	

COMMENTS: This nursery averaged 9% flour protein content. Several selections had questionable to poor flour yield and/or milling score. Cookie spread on a few selections was questionable to poor. One selection IDNO 165 was foot-noted for promising overall quality characteristics. See "Remarks".

NURSCO 71

PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891933 .		6/1	SWW	63.9	75.8	0.32	93.3	8.9	19	53.6
891934 .		2	SWW	61.6	74.8	0.29	92.7	9.0	23	53.7
891935 .		6/3	SWW	62.3	74.8	0.35	90.1	9.8	27	54.8
891936 .		6/4	SWW	62.4	74.0	0.34	89.0	8.6	21	55.0
891937 .		5	SWW	63.1	72.4	0.32	86.5	9.2	23	53.7
891938 .		6	SWW	63.8	71.3	0.30	85.6	8.7	18	55.6
891939 .		7	SRW	60.5	67.5	0.30	78.8	11.4	19	56.2
891940 .		8	SRW	59.1	71.4	0.34	82.1	10.9	21	54.2
891941 .		9	SWW	62.0	73.5	0.31	88.8	9.6	24	56.2
891942 .		12	SWW	60.5	68.7	0.32	80.2	9.5	18	54.1
891943 .		14	SWW	60.0	71.9	0.28	87.6	9.9	16	55.3
891944 .		15	SWW	60.5	74.7	0.36	88.9	9.4	22	55.4
891945 .		19	SWW	63.5	71.5	0.33	84.9	8.7	23	57.1
891946 .		22	SWW	62.1	75.1	0.31	91.8	9.4	19	55.2
891947 WA7672		21	SWW	61.0	69.8	0.36	81.4	9.7	34	59.7
891948 .		32	SWW	61.5	70.0	0.33	83.4	9.6	16	56.8
891949 WA7671		34	SWW	61.6	73.8	0.35	85.8	10.1	20	56.0
891950 .		471	SWW	63.1	73.3	0.31	87.7	9.3	20	56.1
891951 .		474	SWW	64.3	71.7	0.36	82.5	9.9	19	56.2
891952 .		477	SWW	64.3	70.7	0.34	82.8	8.7	17	55.5
891953 .		321	SRW	61.7	69.0	0.34	81.0	9.7	16	56.0
891954 .		322	SRW	62.2	67.3	0.29	80.5	10.0	15	55.6
891955 .		324	SWW	62.2	72.2	0.34	85.6	9.1	18	55.3
891956 .		332	SWW	63.8	69.2	0.35	80.8	8.9	19	55.5
891957 .		333	SWW	63.1	68.5	0.35	78.8	8.7	17	55.9
891958 .		335	SWW	64.4	70.8	0.33	83.7	9.3	22	56.3
891959 .		341	SWW	60.9	68.9	0.37	79.7	8.6	12	56.2
891960 .		343	SWW	62.2	71.2	0.38	84.2	9.8	38	58.7
891961 .		348	SWW	60.6	70.2	0.34	83.3	8.6	17	56.7
891962 WA7435		500	SWW	63.2	71.3	0.33	85.6	9.5	20	55.9

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.
6/ Promising overall quality characteristics.

NURSCO 71

PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	MTYPE	RMKS
891933 .		1	SWW	9.00	8.99	3M	
891934 .		2	SWW	8.61	8.61	2M	P-COD1
891935 .		3	SWW	9.00	9.09	3M	
891936 .		4	SWW	9.09	9.04	4L	
891937 .		5	SWW	8.66	8.68	4L	P-COD1
891938 .		6	SWW	8.76	8.73	3M	Q-COD1
891939 .		7	SRW	8.54	8.80	3M	VP-FYELD, VP-MSCOR
891940 .		8	SRW	8.65	8.86	2M	Q-FYELD, P-MSCOR
891941 .		9	SWW	8.30	8.37	2M	P-COD1
891942 .		12	SWW	8.25	8.31	3L	VP-FYELD, P-MSCOR, P-COD1
891943 .		14	SWW	8.36	8.46	4M	P-COD1
891944 .		15	SWW	8.73	8.77	2M	Q-COD1
891945 .		19	SWW	8.65	8.62	2M	Q-FYELD, P-COD1
891946 .		22	SWW	8.26	8.31	2M	P-COD1
891947 WA7672		28	SWW	7.84	7.89	6M	VP-FYELD, P-MSCOR, VP-COD1
891948 .		32	SWW	8.31	8.38	3M	P-FYELD, P-MSCOR, P-COD1
891949 WA7671		34	SWW	9.10	9.22	2M	
891950 .		471	SWW	8.74	8.77	2M	Q-COD1
891951 .		474	SWW	8.80	8.90	3M	Q-FYELD, P-MSCOR
891952 .		477	SWW	8.81	8.78	2M	P-FYELD, P-MSCOR, Q-COD1
891953 .		321	SRW	8.45	8.53	2M	P-FYELD, P-MSCOR, P-COD1
891954 .		322	SRW	8.86	8.97	2M	VP-FYELD, P-MSCOR
891955 .		324	SWW	8.39	8.40	4L	P-COD1
891956 .		332	SWW	8.27	8.26	4L	P-FYELD, P-MSCOR, P-COD1
891957 .		333	SWW	8.60	8.57	5L	P-FYELD, P-MSCOR, P-COD1
891958 .		335	SWW	8.20	8.23	5M	P-FYELD, P-MSCOR, P-COD1
891959 .		341	SWW	8.12	8.08	2M	P-FYELD, P-MSCOR, P-COD1
891960 .		343	SWW	7.82	7.89	6M	P-FYELD, Q-MSCOR, VP-COD1
891961 .		348	SWW	8.18	8.13	3M	P-FYELD, P-MSCOR, P-COD1
891962 WA7435		500	SWW	8.66	8.72	4M	Q-FYELD, Q-COD1

NURSCO 71

PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891963 .		367	SWW	63.6	73.9	0.35	87.8	9.2	16	55.6
891964 .		401	SWW	63.0	69.1	0.31	82.7	9.6	14	57.6
891965 .		439	SWW	63.5	74.3	0.35	86.4	8.8	21	55.6
891966 LUKE		480	SWW	63.8	73.2	0.38	85.3	9.1	13	57.1

LABNUM	VARIETY	IDNO	CLASS	COOI	COOIC 4/	MTYPE	RMKS
891963 .		367	SWW	8.96	8.98	3M	
891964 .		401	SWW	8.50	8.55	2M	P-FYELD, P-MSCOR, P-COD1
891965 .		439	SWW	8.56	8.54	3M	P-COD1
891966 LUKE		480	SWW	8.91	8.92	3M	

COMMENTS: This nursery averaged 9% flour protein content. Several selections in this nursery had poor to questionable flour yield and/or milling score. Also, the cookie diameter for several selections was poor to questionable. Three selections (IDNO 1, 3 & 4) were footnoted as having good overall quality characteristics. See "Remarks".

NURSCO 72

WALLA2, PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891967 .		59	CLUB	61.6	71.3	0.34	89.9	8.7	44	51.7
891968 .		60	CLUB	61.7	71.4	0.34	90.1	9.9	49	51.5
891969 .		61	CLUB	60.7	72.5	0.31	93.4	9.6	48	51.4
891970 .		64	CLUB	60.7	73.2	0.33	93.6	8.6	43	50.9
891971 .		6/ 65	CLUB	61.0	73.3	0.33	93.1	8.8	42	51.0
891972 .		78	CLUB	61.4	72.4	0.33	92.0	9.1	48	48.7
891973 .		84	CLUB	62.2	73.1	0.31	94.1	8.6	53	51.3
891974 .		87	CLUB	62.0	71.3	0.36	88.7	9.2	51	48.7
891975 .		88	CLUB	63.4	69.9	0.33	88.8	9.9	47	48.9
891976 .		142	CLUB	60.1	70.7	0.31	91.1	9.2	50	52.4
891977 .		144	CLUB	60.3	71.3	0.33	91.2	8.7	50	52.8
891978 .		184	CLUB	62.0	72.5	0.32	92.8	9.1	48	52.2
891979 .		202	CLUB	63.5	69.9	0.30	90.7	8.6	41	52.5
891980 .		6/ 203	CLUB	62.8	71.5	0.27	95.2	8.6	47	52.7
891981 .		186	CLUB	62.6	68.8	0.31	88.7	9.6	48	50.7
891982 .		170	CLUB	63.4	71.7	0.29	93.6	9.1	50	48.7
891983 .		171	CLUB	63.2	71.8	0.30	93.1	8.5	46	49.8
891984 HYAK		55	CLUB	62.6	71.7	0.30	93.6	8.3	54	55.2
891985 TRES		56	CLUB	63.2	72.0	0.31	92.7	8.8	47	50.5
891986 HYAK		174	CLUB	62.2	72.4	0.27	95.8	8.8	54	52.3
891987 TRES		179	CLUB	63.0	71.5	0.30	92.7	8.6	44	49.2

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 72

WALLA2, PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	COD1	CODIC 4/	MTYPE	RMKS
891967 .		59	CLUB	9.27	9.25	3M	Q-FYELD, P-MSCOR
891968 .		60	CLUB	8.95	9.01	3M	Q-FYELD, P-MSCOR, Q-COD1
891969 .		61	CLUB	9.27	9.32	3M	
891970 .		64	CLUB	9.10	9.07	3L	
891971 .		65	CLUB	9.85	9.84	3L	Excellent COD1
891972 .		78	CLUB	9.35	9.36	1M	
891973 .		84	CLUB	8.89	8.86	3L	P-COD1
891974 .		87	CLUB	8.99	9.00	1M	Q-FYELD, P-MSCOR, Q-COD1
891975 .		88	CLUB	9.49	9.55	1M	P-FYELD, P-MSCOR
891976 .		142	CLUB	9.04	9.05	3M	Q-FYELD
891977 .		144	CLUB	8.87	8.85	3L	Q-FYELD, P-COD1
891978 .		184	CLUB	9.31	9.32	2M	
891979 .		202	CLUB	8.93	8.90	1L	P-FYELD, Q-MSCOR, Q-COD1
891980 .		203	CLUB	9.33	9.30	2L	
891981 .		186	CLUB	9.16	9.21	1M	P-FYELD, P-MSCOR
891982 .		170	CLUB	9.02	9.03	1M	
891983 .		171	CLUB	8.89	8.85	1M	P-COD1
891984 HYAK		55	CLUB	9.34	9.29	4L	
891985 TRES		56	CLUB	9.23	9.21	1M	
891986 HYAK		174	CLUB	8.84	8.82	3L	
891987 TRES		179	CLUB	9.49	9.46	1M	

COMMENTS: This nursery averaged 9% flour protein content. A few selections had questionable to poor flour yield and/or milling score. Most selections had satisfactory cookie spread. Two selections (IDNO 65 and 203) had promising overall quality characteristics. See "Remarks".

NURSCO 73

R.E. ALLAN

PULLMAN, WA

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
891988	SQ/4*FARO	536	SWW	64.6	75.4	0.29	94.4	9.5	25	53.0
891989	SQ/4*TRES	541	SWW	64.7	75.0	0.31	92.7	9.4	36	52.0
891990	NDM8/3*SPN	556	SWW	63.6	73.8	0.30	90.7	9.6	27	55.0
891991	NDM7/3*TYEE	562	SWW	63.6	74.5	0.31	91.4	9.6	24	52.9
891992	NDM7/3*LUKE	569	SWW	63.7	70.7	0.34	84.4	9.0	22	56.2
891993	NDM4/3*LUKE	6/ 584	SWW	65.1	76.1	0.33	92.3	9.9	27	55.2
891994	NDM1/3*LUKE	590	SWW	64.6	74.4	0.37	87.4	10.0	27	55.6
891995	NDM7/3*NGN	600	SWW	64.9	72.8	0.34	87.1	8.8	26	55.8
891996	FARO	535	CLUB	63.5	75.5	0.35	91.2	8.7	36	54.2
891997	TRES	539	CLUB	64.8	74.9	0.33	91.4	9.6	33	50.0
891998	LEWJAIN	544	SWW	63.5	73.3	0.35	87.6	9.2	22	54.3
891999	STEPHENS	550	SWW	63.7	73.9	0.33	87.9	9.8	22	53.9
892000	LUKE	568	SWW	64.4	73.9	0.35	88.6	9.1	31	55.8
892001	NUGAINES	586	SWW	65.4	73.4	0.33	88.9	9.1	25	56.4

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 9% protein.

4/ Observed values corrected to 9% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 73

PULLMAN, WA

R.E. ALLAN

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	MTYPE	RMKS
891988	SQ/4*FARO	536	SWW	8.15	8.20	2M	P-COD1
891989	SQ/4*TRES	541	SWW	8.64	8.68	1M	
891990	NDM8/3*SPN	556	SWW	8.43	8.49	3M	Q-COD1
891991	NDM7/3*TYEE	562	SWW	8.52	8.59	3M	Q-COD1
891992	NDM7/3*LUKE	569	SWW	8.62	8.62	4M	P-FYELD, Q-COD1
891993	NDM4/3*LUKE	584	SWW	8.86	8.96	3M	
891994	NDM1/3*LUKE	590	SWW	8.37	8.48	2M	Q-COD1
891995	NDM7/3*NGN	600	SWW	8.31	8.29	2M	Q-FYELD, P-COD1
891996	FARO	535	CLUB	8.94	8.92	2M	
891997	TRES	539	CLUB	8.70	8.74	1M	
891998	LEWJAIN	544	SWW	8.65	8.67	3M	
891999	STEPHENS	550	SWW	8.45	8.54	2M	
892000	LUKE	568	SWW	8.98	8.99	3M	Q-COD1
892001	MUGAINES	586	SWW	8.64	8.65	3M	

COMMENTS: This nursery averaged 9% flour protein content. Most selections had satisfactory flour yield and milling score. Cookie spread of several selections was poor to questionable. One selection (IDNO 584) had promising overall quality characteristics. See "Remarks".

NURSCO 75

PULLMAN, WA

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892014	NUGAINES --WINTER--									
892015	DAWS	C1013968	SWW	58.8	66.4	0.31	79.4	8.6	14	54.7
892016	STEPHENS	C1017419	SWW	57.8	69.6	0.34	81.7	9.5	12	53.9
892017	HATTON	C1017596	SWW	55.5	71.5	0.30	85.9	9.3	10	54.4
892018	LEWJAIN	C1017772	HRW	60.7	72.1	0.30	88.6	10.9	35	60.4
		C1017909	SWW	57.4	73.5	0.29	89.6	9.1	18	54.3
892019	TRES									
892020	CREW	C1017917	CLUB	57.3	74.9	0.31	91.7	9.3	18	49.4
892021	HILL 81	C1017951	CLUB	57.2	74.9	0.27	93.1	9.2	20	49.9
892022	DUSTY	C1017954	SWW	56.8	74.2	0.32	89.5	9.9	17	53.1
892023	BATUM	PI486429	SWW	56.6	70.4	0.33	81.6	8.9	13	54.2
		PI495013	HRW	57.5	74.1	0.30	93.0	10.8	37	59.3
892024	OVESON									
892025	MADSEN	PI512338	SWW	56.7	71.1	0.28	85.5	8.8	16	53.8
892026	HYAK	WA7163	SWW	56.1	73.7	0.27	91.8	9.6	13	53.7
892027	CASHUP	WA7166	CLUB	57.9	73.9	0.26	93.1	8.9	23	54.4
892028	FRDRK/SRG	WA7521	SWW	55.6	70.1	0.26	85.5	9.0	10	53.2
		WA7523	HRW	57.0	73.7	0.30	93.9	10.5	39	56.6
892029	TRES COMPOSITE CROSS									
892030	VH74554//VPM-1/MOISSON	WA7526	CLUB	57.4	72.9	0.31	87.0	9.9	20	48.7
892031		WA7529	SWW	56.0	72.7	0.31	86.9	9.4	13	52.5
892032	WAMPUM --SPRING--	WA7627	SWW	55.5	70.6	0.35	81.2	10.0	18	53.0
892033	TREASURE	C1017691	HRS	54.3	69.8	0.35	83.9	12.5	36	60.5
		PI468962	SWS	53.9	68.7	0.35	78.6	10.8	19	55.5
892034	EDWALL									
892035	PENEHAWA	PI477919	SWS	52.3	68.1	0.34	78.0	10.7	13	54.0
892036	WAKANZ	PI495916	SWS	54.3	67.9	0.38	75.2	10.6	11	52.8
892037	BUTTE 86	PI506352	SWS	53.7	68.2	0.35	79.5	11.0	9	54.4
892038	SPILLMAN	ND0597	HRS	58.1	66.9	0.33	81.2	13.3	55	60.3
		WA7075	HRS	52.7	71.7	0.39	85.3	13.4	47	60.0
892039	WADUAL									
892040	906R	WA7187	SWS	55.2	69.0	0.39	77.1	11.3	13	55.0
892041	926R		HRS	56.1	68.6	0.39	77.9	13.7	42	59.9
			HRS	56.0	68.9	0.30	83.5	14.1	41	59.4

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 10% protein.

4/ Observed values corrected to 10% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 75

PULLMAN, WA

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL
892014	NUGAINES --WINTER--									
892015	DAWS	C1013968	SWW	8.68	8.52	3L	52.5	53.9	2.3	720
892016	STEPHENS	C1017419	SWW	8.76	8.71	3L	52.6	53.1	2.9	715
892017	HATTON	C1017596	SWW	8.74	8.66	3L	52.9	53.6	2.2	680
892018	LEWJAIN	C1017772	HRW	8.02	8.10	4M	61.5	60.6	3.1	850
		C1017909	SWW	9.48	9.38	4M	53.6	54.5	2.9	735
892019	TRES									
892020	CREW	C1017917	CLUB	8.76	8.71	1M	48.9	49.6	1.2	545
892021	HILL 81	C1017951	CLUB	8.90	8.84	2M	49.3	50.1	1.5	650
892022	DUSTY	C1017954	SWW	9.30	9.29	2M	52.2	52.3	1.8	750
892023	BATUM	P1486429	SWW	9.14	9.02	3M	52.8	53.9	2.5	780
		P1495013	HRW	7.60	7.66	3M	60.3	59.5	1.8	870
892024	OVESON									
892025	MADSEN	P1512338	SWW	8.62	8.49	4L	52.8	54.0	3.1	730
892026	HYAK	WA7163	SWW	8.56	8.52	2M	52.5	52.9	2.0	725
892027	CASHUP	WA7166	CLUB	8.62	8.55	4M	53.5	54.6	3.1	705
892028	FRDRK/SRG	WA7521	SWW	8.77	8.66	2M	52.4	53.4	1.9	750
		WA7523	HRW	7.87	7.91	4M	57.3	56.8	2.5	845
892029	TRES COMPOSITE CROSS									
892030	VH74554//VPM-1/MOISSON	WA7526	CLUB	8.80	8.79	1M	48.8	48.9	1.2	605
892031		WA7529	SWW	8.90	8.83	2M	52.1	52.7	2.1	735
892032	WAMPUM --SPRING--	WA7627	SWW	8.59	8.59	2M	53.2	53.2	1.8	725
892033	TREASURE	C1017691	HRS	7.95	8.15	3H	63.2	60.7	3.9	1040
		P1468962	SWS	8.89	8.98	3M	56.5	55.7	2.5	925
892034	EDWALL									
892035	PENEWAWA	P1477919	SWS	8.54	8.61	2M	54.9	54.2	2.2	910
892036	WAKANZ	P1495916	SWS	8.35	8.42	3M	53.6	53.0	3.4	905
892037	BUTTE 88	P1506352	SWS	8.74	8.85	3M	54.6	53.6	3.2	910
892038	SPILLMAN	ND0597	HRS	7.68	7.94	4H	63.8	60.5	3.1	925
		WA7075	HRS	7.60	7.87	3H	63.6	60.2	2.8	955
892039	WADUAL									
892040	906R	WA7187	SWS	8.56	8.71	4M	56.5	55.2	4.2	930
892041	926R		HRS	7.36	7.66	4H	63.8	60.1	4.3	1030
			HRS	7.50	7.83	4H	63.7	59.6	4.3	1075

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PULLMAN, WA

LABNUM	VARIETY	IDNO	CLASS	LVOIC 4/	BCRGR	CAVOL	SCSOR	WTIN	NOSCOR	VISC
892014	NUGAINES --WINTER--									
892015	DAWS	CI013968	SWW	804	7	1280	75.0	329	72	91
892016	STEPHENS	CI017419	SWW	745	8	1275	74.0	328	74	117
892017	HATTON	CI017596	SWW	722	9	1250	68.0	349	73	89
892018	LEWJAIN	CI017772	HRW	794	4	1105	59.0	327	68	
		CI017909	SWW	789	7	1370	80.0	330	71	113
892019	TRES									
892020	CREW	CI017917	CLUB	583	9	1260	73.0	383	75	64
892021	HILL 81	CI017951	CLUB	694	9	1280	74.0	368	73	70
892022	DUSTY	CI017954	SWW	756	8	1170	59.0	364	72	88
892023	BATUM	PI486429	SWW	846	6	1225	67.0	358	70	85
		PI495013	HRW	820	5	1105	60.0	339	67	257
892024	OVESON									
892025	MADSEN	PI512338	SWW	802	8	1215	68.0	378	74	99
892026	HYAK	WA7163	SWW	749	8	1180	65.0	334	71	119
892027	CASHUP	WA7166	CLUB	765	8	1245	69.0	323	72	94
892028	FRDRK/SRG	WA7521	SWW	810	9	1075	56.0	340	69	99
		WA7523	HRW	814	7	1090	57.0	300	65	
892029	TRES COMPOSITE CROSS									
892030	VH74554//VPM-1/MOISSON	WA7526	CLUB	610	9	1235	66.0	342	70	100
892031		WA7529	SWW	771	8	1280	70.0	326	69	82
892032	WAMPUM --SPRING--	WA7627	SWW	725	8	1295	74.0	308	68	103
892033	TREASURE	CI017691	HRS	885	3	1155	58.0	340	68	
		PI468962	SWS	877	5	1305	77.0	350	71	147
892034	EDWALL									
892035	PENEWAWA	PI477919	SWS	868	5	1270	72.0	344	73	148
892036	WAKANZ	PI495916	SWS	869	5	1265	72.0	327	69	152
892037	BUTTE 86	PI506352	SWS	850	5	1275	71.0	335	70	182
892038	SPILLMAN	ND0597	HRS	720	4	1100	59.0	324	68	
		WA7075	HRS	744	2	1195	66.0	306	65	
892039	WADUAL									
892040	906R	WA7187	SWS	852	3	1365	79.0	334	69	253
892041	926R		HRS	801	4	1120	59.0	330	68	
			HRS	821	4	1095	54.0	331	68	

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PULLMAN, WA

LABNUM	VARIETY	IDNO	CLASS	VISCC 4/	FABSC 3/	FPEAK	FSTAB	DSI	RMKS
892014	NUGAINES --WINTER--								
892015	DAVS	CI013968	SWW	125				0.210	
892016	STEPHENS	CI017419	SWW	129				0.604	
892017	HATTON	CI017596	SWW	103				0.541	
892018	LEWJAIN	CI017772	HRW		61.9	9.2	13.2	0.251	
		CI017909	SWW	137				0.330	
892019	TRES	CI017917	CLUB	74				0.999	
892020	CREW	CI017951	CLUB	82				0.999	
892021	HILL 81	CI017954	SWW	90				0.999	
892022	DUSTY	PI486429	SWW	108				0.999	
892023	BATUM	PI495013	HRW	222	64.3	4.0	3.0	0.382	
892024	OVESON	PI512338	SWW	130				0.896	
892025	MADSEN	WA7163	SWW	129				0.999	
892026	HYAK	WA7166	CLUB	120				0.814	
892027	CASHUP	WA7521	SWW	123				0.999	
892028	FRDRK/SRG	WA7523	HRW		59.6	4.1	6.7	0.999	
892029	TRES COMPOSITE CROSS								
892030	VH74554//VPM-1/MOISSON	WA7526	CLUB	82				0.999	
892031		WA7529	SWW	93				0.999	
892032	WAMPUM --SPRING--	WA7627	SWW	103				0.248	
892033	TREASURE	CI017691	HRS		56.5	8.0	18.0	0.291	
		PI488962	SWS	127				0.434	
892034	EDWALL	PI477919	SWS	131				0.370	
892035	PENEWAWA	PI495916	SWS	136				0.403	
892036	WAKANZ	PI506352	SWS	152				0.210	
892037	BUTTE B&S	ND0597	HRS		62.8	8.6	18.9	0.079	
892038	SPILLMAN	WA7075	HRS		62.2	8.5	8.9	0.145	
892039	WADUAL								
892040	906R	WA7187	SWS	201				0.155	
892041	926R		HRS		62.8	11.3	15.7	0.119	
			HRS		60.7	13.3	17.4	0.076	

COMMENTS:

These standard varieties were grown in large quantities by the Department of Agronomy and Soils, Washington State University, for the purpose of providing a resource of materials for special research projects at the Western Wheat Quality Laboratory. We express our appreciation for their cooperation. Drill strips were not available from Lind, WA due to winter kill and sprout damage. Several of the varieties from Pullman had severe sprout damage and this was reflected in the baked products.

NURSCO 76

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	FHRD	MABSC
892042 BATUM						<u>1</u> /		<u>1</u> /		<u>3</u> /
892043 OR 889267		89XRPTY9	HRW	63.2	72.9	0.29	93.5	8.2	77	56.5
892044 OR CR8313		89XRPTY120	HRW	66.4	70.6	0.32	89.5	9.5	84	56.4
		89HRRAN3	HRW	66.0	71.0	0.34	88.9	7.6	76	57.4

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 8% protein.

4/ Observed values corrected to 8% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 76

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	MTYPE	RMKS
892042 BATUM		89XRPT9	HRW	8.09	8.10	3M	
892043 OR 889267		89XRPT120	HRW	8.15	8.27	2M	Q-FYELD
892044 OR CR8313		89HRRAN3	HRW	8.34	8.31	6L	

COMMENTS: For hard wheats, these cultivars had atypically low protein and mixograph absorption. The mixographs were also not typical of hard wheats. Bread was not baked on these samples because the results would not have been informative. OR889267 appears to be a better hard wheat (or rather a less good soft wheat) than does ORCR8313.

NURSCO 78

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892057 WANSER		89HRELT1	HRW	64.7	72.7	0.35	87.1	12.7	48	60.1
892058 STEPHENS		89HRELT2	SWW	61.0	71.6	0.39	82.3	10.5	38	55.4
892059 OR CR8313		89HRELT3	HRW	64.2	72.7	0.37	86.7	10.8	47	59.8
892060 FEDERATION		89HRELT4	SWW	63.1	71.5	0.36	83.3	10.2	29	56.1
892061 BATUM		89HRELT6	HRW	63.0	72.3	0.36	87.4	10.6	47	61.1
892062 OR CR8602		89HRELT9	HRW	63.2	67.2	0.36	79.9	10.5	54	62.8
892063 OR 8301134		89HRELT13	HRW	65.6	69.4	0.34	83.4	9.9	48	63.5
892064 OR 840157		89HRELT15	HRW	65.4	70.6	0.34	85.9	9.5	44	61.4
892065 OR 841708		89HRELT17	HRW	62.6	68.0	0.37	80.1	10.0	59	61.4
892066 OR 8303372		89HRELT18	HRW	62.7	68.3	0.35	81.3	9.1	53	60.8
892067 OR8400161P		89HRELT21	HRW	65.5	71.1	0.34	86.1	9.1	51	60.4

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 10% protein.

4/ Observed values corrected to 10% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 78

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
892057 WANSER		89HRELT1	HRW	3H	63.0	60.3	3.1	885	718	4
892058 STEPHENS		89HRELT2	SWW	2M	56.1	55.6	1.8	780	750	6
892059 OR CR8313		89HRELT3	HRW	4H	60.8	60.0	3.7	800	750	5
892060 FEDERATION		89HRELT4	SWW	2M	56.5	56.3	1.8	830	818	6
892061 BATUM		89HRELT6	HRW	4M	61.9	61.3	2.5	830	793	6
892062 OR CR8602		89HRELT9	HRW	8M	63.5	63.0	5.7	715	684	6
892063 OR 8301134		89HRELT13	HRW	6M	63.6	63.7	3.2	750	756	7
892064 OR 840157		89HRELT15	HRW	5M	62.1	62.6	4.0	755	786	6
892065 OR 841708		89HRELT17	HRW	3M	62.6	62.6	2.6	740	740	6
892066 OR 8303372		89HRELT18	HRW	3M	62.1	63.0	2.6	700	756	8
892067 OR8400161P		89HRELT21	HRW	5M	60.7	61.6	3.7	730	786	8

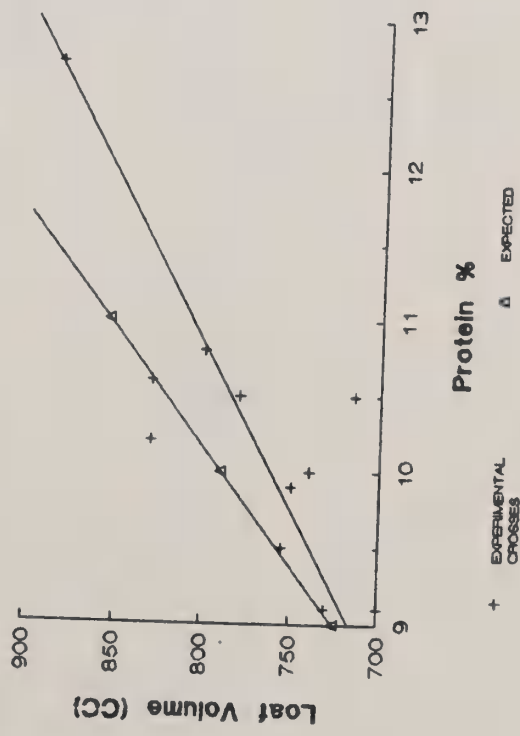
NURSCO 78

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	RMKS
892057 WANSE				
892058 STEPHENS		89HRELT1	HRW	
892059 OR CR8313		89HRELT2	SWW	
892060 FEDERATION		89HRELT3	HRW	
892061 BATUM		89HRELT4	SWW	
		89HRELT6	HRW	
892062 OR CR8602		89HRELT9	HRW	P-FYELD, P-MSCOR
892063 OR 8301134		89HRELT13	HRW	Q-FYELD, Q-MSCOR, P-BCRGR
892064 OR 840157		89HRELT15	HRW	Q-FYELD, Q-MSCOR
892065 OR 841708		89HRELT17	HRW	P-FYELD, P-MSCOR
892066 OR 8303372		89HRELT18	HRW	P-FYELD, P-MSCOR, P-BORGR
892067 OR8400161P		89HRELT21	HRW	P-BCRGR

LOAF VOLUME VS PROTEIN



COMMENTS: 892067 was promising in all aspects except crumb grain. However, possibly due to environment, none of the cultivars in this nursery possessed adequate crumb grain. Therefore 892067 is flagged as promising, but this grade is with a caution. ORCR8313 performed as well as Wanser, or better, given the protein levels. The other cultivars did not perform well, particularly in millability.

NURSCO 79

DAVIS, CA

P.K. ZWER

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	FHRD	MABSC
892068 CHINESE SPRING			SRS	60.4	64.2	<u>1</u> /	69.6	<u>1</u> /		<u>3</u> /
						0.43	12.1			58.0

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC	MTYPE	BABS	BABSC	MTIME	LVOL
892068 CHINESE SPRING			SRS	8.37	8.39	2M	<u>1</u> /	<u>3</u> /	1.5	770
					<u>4</u> /					

LABNUM	VARIETY	IDNO	CLASS	LVOLC	BCRGR	RMKS
892068 CHINESE SPRING			SRS	764	8	VP-FYELD.VP-MSCOR,P-COD1,P-BABS,P-MTIME,P-LVOL,P-BCRGR

- 1/ Observed values corrected to 14% moisture basis.
3/ Absorption at 14% moisture corrected to 12% protein.
4/ Observed values corrected to 12% protein.
5/ Particularly promising overall quality characteristics
6/ Promising overall quality characteristics.

COMMENTS: The quality of this Chinese Spring was like that of several others previously tested in this laboratory.
It had very poor overall quality compared to the typical hard red winter or spring wheat.

NURSCO 80

RUGGS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892069 STEPHENS		89SWELT1	SWW	59.6	72.6	0.41	82.6	8.2	22	53.5
892070 HILL		89SWELT2	SWW	62.1	73.3	0.38	85.1	8.0	18	53.5
892071 MALCOLM		89SWELT3	SWW	62.2	71.7	0.39	83.2	7.7	17	54.3
892072 OVESON		89SWELT4	SWW	63.2	73.4	0.39	84.7	7.7	14	53.4
892073 DUSTY		89SWELT5	SWW	62.2	73.3	0.40	85.7	7.0	13	53.4
892074 TRES		89SWELT6	CLUB	61.5	73.7	0.39	86.6	6.8	21	52.4
892075 OR 855		89SWELT7	SWW	62.8	73.6	0.40	86.8	6.8	19	53.9
892076 DAWS		89SWELT8	SWW	61.8	72.4	0.37	85.0	7.0	16	54.8
892077 HYAK		89SWELT9	CLUB	62.4	72.8	0.37	85.6	7.1	25	58.2
892078 MADSEN		89SWELT10	SWW	61.8	74.5	0.37	88.0	6.8	26	57.4
892079 WHITMAN		89SWELT11	TRIT	56.4	55.2	0.43	54.5	6.4	29	61.9
892080 OSU-21		89SWELT13	SWW	67.3	72.0	0.37	83.1	8.3	26	55.6
892081 OR CW8626		89SWELT18	SWW	63.2	73.2	0.37	87.5	7.8	30	53.9
892082 OR CW8629		89SWELT20	SWW	62.2	74.1	0.33	89.0	8.0	24	53.7
892083 OR CW8632		89SWELT21	SWW	61.2	73.0	0.39	83.9	9.7	18	53.8
892084 OR 8300801		89SWELT22	SWW	61.0	72.5	0.38	83.4	7.8	13	54.4
892085 OR 8302665		89SWELT23	SWW	62.3	70.6	0.37	82.9	8.5	24	54.1
892086 OR 8303725		89SWELT25	SWW	62.4	75.8	0.40	88.4	7.3	27	55.1
892087 OR 8303765		89SWELT26	SWW	62.6	73.6	0.42	83.7	7.4	22	55.9
892088 OR8400814H		89SWELT27	SWW	62.9	74.4	0.42	84.8	8.1	32	54.6
892089 OR 840815		89SWELT28	SWW	62.0	74.6	0.42	85.5	8.6	20	53.4
892090 OR 8303734		89SWELT34	SWW	60.7	75.0	0.40	87.9	8.7	28	54.6
892091 OR8400838H		89SWELT35	SWW	60.6	74.7	0.39	87.4	8.2	20	54.7
892092 OR8501005H		89SWELT45	SWW	61.8	73.2	0.41	83.8	7.9	20	54.8
892093 OR8500933H		89SWELT48	SWW	61.7	72.4	0.43	81.5	8.2	22	56.0
892094 OR8500594H		89SWELT49	SWW	62.0	73.3	0.42	83.1	8.0	26	57.1
892095 OR8501048P		89SWELT50	SWW	60.9	72.3	0.43	80.6	7.4	35	55.7
892096 STEPHENS		89SWELT1	SWW	57.4	69.1	0.44	73.8	9.5	14	53.5
892097 HILL		89SWELT2	SWW	61.2	72.1	0.41	81.2	8.8	14	53.4
892098 MALCOLM		89SWELT3	SWW	59.7	71.2	0.42	79.2	8.5	15	53.6

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 8% protein.

4/ Observed values corrected to 8% protein.

5/ Particularly promising overall quality characteristics.
6/ Promising overall quality characteristics.

NURSCO 80

RUGGS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	MTYPE	CAVOL	SCSOR	RMKS
892069 STEPHENS		89SWELT1	SWW	8.60	8.62	3L	1270	71.0	
892070 HILL		89SWELT2	SWW	8.91	8.91	3L	1235	70.0	
892071 MALCOLM		89SWELT3	SWW	8.36	8.33	2L	1250	70.0	
892072 OVESON		89SWELT4	SWW	8.45	8.42	5L	1095	55.0	
892073 DUSTY		89SWELT5	SWW	8.92	8.81	5L	1255	71.0	
892074 TRES		89SWELT6	CLUB	8.50	8.41	2L	1295	75.0	
892075 OR 855		89SWELT7	SWW	8.70	8.57	2L	1190	65.0	P-CAVOL, P-SCSOR
892076 DAWS		89SWELT8	SWW	8.16	8.05	5L	1145	59.0	
892077 HYAK		89SWELT9	CLUB	8.76	8.70	5L	1145	61.0	
892078 MADSEN		89SWELT10	SWW	8.24	8.11	5L	1135	63.0	
892079 WHITMAN		89SWELT11	TRIT	7.43	7.25	1L	1060	57.0	P-TWT, P-FYELD, P-MSCOR, P-COD1, P-CAVOL, P-SCSOR
892080 OSU-21		89SWELT13	SWW	8.31	8.35	3L	1165	65.0	Q-COD1, P-CAVOL, P-SCSOR
892081 OR CW8626		89SWELT18	SWW	8.35	8.33	2L	1245	71.0	Q-COD1
892082 OR CW8629		89SWELT20	SWW	8.16	8.16	3L	1150	62.0	P-COD1, P-CAVOL, P-SCSOR
892083 OR CW8632		89SWELT21	SWW	8.12	8.31	2M	1180	68.0	Q-COD1, P-CAVOL, Q-SCSOR
892084 OR 8300801		89SWELT22	SWW	8.62	8.60	3L	1320	75.0	
892085 OR 8302665		89SWELT23	SWW	8.32	8.38	2M	1240	68.0	
892086 OR 8303725		89SWELT25	SWW	8.44	8.36	3L	1180	67.0	Q-FYELD, Q-COD1, Q-SCSOR
892087 OR 8303765		89SWELT26	SWW	8.24	8.17	3L	1245	71.0	Q-COD1, P-CAVOL, Q-SCSOR
892088 OR8400814H		89SWELT27	SWW	8.35	8.36	2L	1155	65.0	P-COD1
892089 OR 840815		89SWELT28	SWW	8.39	8.45	2L	1255	75.0	Q-COD1, P-CAVOL, P-SCSOR
892090 OR 8303734		89SWELT34	SWW	8.41	8.49	4L	1200	67.0	P-CAVOL, Q-SCSOR
892091 OR8400838H		89SWELT35	SWW	8.71	8.73	2L	1270	73.0	
892092 OR8501005H		89SWELT45	SWW	8.31	8.30	3L	1130	63.0	Q-COD1, P-CAVOL, P-SCSOR
892093 OR8500933H		89SWELT48	SWW	8.37	8.40	3L	1155	65.0	Q-MSCOR, Q-COD1, P-CAVOL, P-SCSOR
892094 OR8500594H		89SWELT49	SWW	8.24	8.24	3L	1205	68.0	P-COD1, P-CAVOL, Q-SCSOR
892095 OR8501048P		89SWELT50	SWW	8.21	8.15	3L	1105	61.0	Q-MSCOR, P-COD1, P-CAVOL, P-SCSOR
892096 STEPHENS		89SWELT1	SWW	8.62	8.79	4L	1290	73.0	
892097 HILL		89SWELT2	SWW	8.60	8.69	4L	1275	73.0	
892098 MALCOLM		89SWELT3	SWW	8.59	8.64	3L	1250	68.0	

P-SCSOR

NURSCO 80

RUGGS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYLD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892099 OVESON										
892100 TRES		89SWELT4	SNW	60.8	68.8	0.45	73.8	8.7	13	53.4
892101 OR 855		89SWELT6	CLUB	60.6	73.5	0.47	80.9	7.7	16	51.2
892102 DAWS		89SWELT7	SNW	61.8	73.4	0.45	82.6	8.4	21	53.5
892103 HYAK		89SWELT8	SNW	60.9	71.3	0.43	79.9	8.3	27	53.7
		89SWELT9	CLUB	58.9	73.7	0.38	86.5	7.9	25	54.6
892104 MADSEN										
892105 OR CW8626		89SWELT10	SNW	61.0	74.6	0.39	87.6	8.4	25	55.3
892106 OR CW8632		89SWELT18	SNW	62.5	74.6	0.39	86.6	9.7	24	55.2
892107 OR 8300801		89SWELT21	SNW	58.1	69.9	0.39	78.1	10.0	18	54.7
892108 OR 8302665		89SWELT22	SNW	58.1	67.5	0.39	72.3	9.5	18	53.9
		89SWELT23	SNW	60.5	67.7	0.38	75.6	9.3	18	55.1
892109 OR 8303765										
892110 OR8400814H		89SWELT26	SNW	60.7	71.0	0.38	80.4	8.8	17	55.3
892111 OR 840815		89SWELT27	SNW	60.6	71.2	0.39	79.4	9.5	19	54.6
892112 OR8400838H		89SWELT28	SNW	58.7	70.8	0.41	77.0	10.5	20	54.0
892113 OR8500933H		6/ 89SWELT35	SNW	60.3	73.4	0.37	85.0	8.4	21	54.0
		89SWELT48	SNW	60.0	71.0	0.40	80.1	8.4	21	55.0
892114 OR8500594H		89SWELT49	SNW	58.7	68.5	0.42	74.8	9.1	16	54.2

NURSCO 80

RUGGS, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC 4/	MTYPE	CAVOL	SCSOR	RMKS
892099 OVESON									
892100 TRES		89SWELT4	SNW	8.73	8.80	6L	1335	78.0	
892101 OR 855		89SWELT6	CLUB	8.75	8.73	2L	1320	75.0	
892102 DAWS		89SWELT7	SNW	8.86	8.91	3L	1285	73.0	
892103 HYAK		89SWELT8	SNW	8.50	8.53	4L	1275	72.0	
		89SWELT9	CLUB	8.58	8.57	7L	1265	67.0	
892104 MADSEN									
892105 OR CW8626		89SWELT10	SNW	8.55	8.59	4L	1310	77.0	
892106 OR CW8632		89SWELT18	SNW	8.50	8.69	3M	1300	76.0	
892107 OR 8300801		89SWELT21	SNW	8.86	9.08	2M	1265	73.0	P-FYELD, P-MSCOR
892108 OR 8302665		89SWELT22	SNW	8.73	8.89	4L	1255	71.0	P-FYELD, P-MSCOR
		89SWELT23	SNW	8.59	8.73	2M	1155	60.0	P-FYELD, P-MSCOR, P-CAVOL, VP-SCSOR
892109 OR 8303765									
892110 OR 8400814H		89SWELT26	SNW	8.74	8.83	4M	1330	76.0	Q-FYELD, P-MSCOR
892111 OR 840815		89SWELT27	SNW	8.62	8.79	3M	1330	76.0	Q-FYELD, P-MSCOR
892112 OR 8400838H		89SWELT28	SNW	8.51	8.79	3M	1260	70.0	P-FYELD, P-MSCOR
892113 OR 8500933H		89SWELT35	SNW	9.26	9.31	3L	1315	73.0	
		89SWELT48	SNW	8.50	8.54	4L	1250	68.0	Q-FYELD, P-MSCOR, Q-SCSOR
892114 OR 8500594H		89SWELT49	SNW	8.84	8.96	4L	1295	76.0	Q-TWT, P-FYELD, P-MSCOR

COMMENTS: This nursery averaged 8% flour protein content. Quality results were not uniform between the two sets of check varieties. Comparison between checks and selections were based on the mean of the two sets of check varieties. A few selections had poor to questionable milling properties. Cookie diameter of some selections was questionable to poor. Cake volumes and scores varied considerably. Two selections were footnoted as having promising overall quality characteristics. See "Remarks".

NURSCO 81

PENDLETON, OR

W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	TWT	FYLD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892115 MCKAY		89SPHRA1	HRS	62.8	71.8	0.33	90.1	12.0	76	60.9
892116 BORAH		89SPHRA2	HRS	62.0	72.1	0.28	93.1	13.4	76	61.4
892117 WESTBRED		89SPHRA3	HRS	61.6	71.5	0.33	89.8	14.0	83	63.0
892118 .		89SPHRA4	HRS	63.6	70.8	0.35	88.1	12.9	86	62.0
892119 .		89SPHRA5	HRS	64.0	68.0	0.30	87.7	12.7	90	63.3
892120 .		89SPHRA12	HRS	63.2	73.4	0.34	91.3	11.1	74	61.6
892121 .		89SPHRA13	HRS	62.8	70.2	0.31	89.5	11.1	77	62.3
892122 .		89SPHRA14	HRS	63.2	69.3	0.37	85.5	11.4	79	60.3
892123 .		89SPHRA15	HRS	62.8	67.4	0.40	81.9	11.2	91	62.1
892124 .		89SPHRA16	HRS	64.0	66.8	0.31	85.9	12.0	91	64.7
892125 .		89SPHRA17	HRS	64.0	68.0	0.30	87.8	12.6	92	64.2
892126 .		89SPHRA18	HRS	63.6	67.4	0.30	87.1	12.9	92	65.3
892127 .		89SPHRA19	HRS	64.0	71.9	0.32	90.8	11.7	84	59.1
892128 .		89SPHRA23	HRS	62.8	72.0	0.38	87.8	13.6	91	59.7
892129 .		89SPHRA24	HRS	63.6	72.6	0.28	93.6	12.8	89	57.2
892130 .		89SPHRA26	HRS	60.4	70.1	0.37	86.3	13.1	78	58.6
892131 .		89SPHRA30	HRS	63.2	69.2	0.39	84.2	11.8	92	59.3
892132 .		89SPHRA31	HRS	62.8	71.3	0.35	88.6	9.7	93	56.8
892133 .		89SPHRA32	HRS	63.2	70.6	0.36	87.3	10.3	90	56.7
892134 .		89SPHRA34	HRS	63.6	68.3	0.35	85.4	12.7	95	56.8
892135 .		89SPHRA36	HRS	62.8	70.9	0.35	88.1	12.7	85	54.9
892136 .		89SPHRA35	HRS	63.2	68.5	0.37	84.6	12.8	95	55.6
892137 .		89SPHRA38	HRS	62.4	70.0	0.34	87.7	12.5	85	58.1
892138 .		89SPHRA41	HWS	60.4	69.1	0.43	82.1	11.7	86	56.7
892139 .		89SPHRA42	HRS	60.8	70.3	0.42	83.9	12.3	93	56.0
892140 .		89SPHRA44	HRS	62.8	69.7	0.37	85.9	13.2	84	58.8
892141 .		89RPT1	HRS	64.4	70.3	0.39	85.5	11.8	80	56.4
892142 .		89RPT6	HRS	66.0	71.6	0.39	86.8	10.6	86	58.9
892143 .		89RPT7	HRS	65.6	69.7	0.32	88.5	10.9	87	57.9
892144 .		89RPT8	HRS	65.2	69.7	0.34	87.4	10.3	85	57.4

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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W.E. KRONSTAD

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/ 3/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
892115	MCKAY	89SPHRA1	HRS	2H	61.1	61.1	3.2	1000	1000	3
892116	BORAH	89SPHRA2	HRS	1H	62.0	60.6	1.7	1030	943	3
892117	WESTBRED	89SPHRA3	HRS	3H	66.2	64.2	3.3	1115	991	2
892118	.	89SPHRA4	HRS	2H	65.2	64.5	4.0	850	807	6
892119	.	89SPHRA5	HRS	4H	61.9	62.8	7.7	925	981	2
892120	.	89SPHRA12	HRS	6H	62.6	63.5	4.4	905	961	4
892121	.	89SPHRA13	HRS	5H	61.9	62.5	3.3	790	827	6
892122	.	89SPHRA14	HRS	4H	65.9	65.9	3.6	805	805	6
892123	.	89SPHRA15	HRS	1H	66.0	65.4	3.5	875	838	5
892124	.	89SPHRA16	HRS	4H	67.4	66.5	3.5	895	839	5
892125	.	89SPHRA17	HRS	4H	61.3	61.5	2.0	900	912	7
892126	.	89SPHRA18	HRS	4H						
892127	.	89SPHRA19	HRS	4M						
892128	.	89SPHRA23	HRS	2H						
892129	.	89SPHRA24	HRS	2H						
892130	.	89SPHRA26	HRS	2H						
892131	.	89SPHRA30	HRS	2H						
892132	.	89SPHRA31	HRS	3M						
892133	.	89SPHRA32	HRS	3M						
892134	.	89SPHRA34	HRS	1H						
892135	.	89SPHRA36	HRS	2H						
892136	.	89SPHRA35	HRS	1H						
892137	.	89SPHRA38	HRS	4H	60.3	59.8	3.9	935	904	6
892138	.	89SPHRA41	HWS	2H	55.6	55.9	2.0	830	849	8
892139	.	89SPHRA42	HRS	2H	55.5	55.2	1.9	850	831	8
892140	.	89SPHRA44	HRS	3H	61.2	60.0	3.1	995	921	5
892141	.	89RPT1	HRS	1H						
892142	.	89RPT6	HRS	3M						
892143	.	89RPT7	HRS	4H	57.5	58.6	3.3	780	848	8
892144	.	89RPT8	HRS	2H	55.9	57.6	2.4	750	855	8

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LABNUM	VARIETY	IDNO	CLASS	RMKS
892115	MCKAY	89SPHRA1	HRS	
892116	BORAH	89SPHRA2	HRS	
892117	WESTBRED	89SPHRA3	HRS	
892118	.	89SPHRA4	HRS	Q-FYELD
892119	.	89SPHRA5	HRS	P-FYELD, P-LVOL, Q-BCRGR
892120	.	89SPHRA12	HRS	MTIME, Too long
892121	.	89SPHRA13	HRS	Q-FYELD, Q-S-BCRGR
892122	.	89SPHRA14	HRS	P-FYELD, P-LVOL, Q-BCRGR
892123	.	89SPHRA15	HRS	P-FYELD
892124	.	89SPHRA16	HRS	VP-FYELD, P-LVOL, Q-BCRGR
892125	.	89SPHRA17	HRS	P-FYELD, P-LVOL, Q-BCRGR
892126	.	89SPHRA18	HRS	P-FYELD, P-LVOL, Q-BCRGR
892127	.	89SPHRA19	HRS	
892128	.	89SPHRA23	HRS	Q-FASH
892129	.	89SPHRA24	HRS	P-MABS
892130	.	89SPHRA26	HRS	Q-FYELD
892131	.	89SPHRA30	HRS	P-FYELD, P-MTIME, Q-LVOL, P-Q-BCRGR
892132	.	89SPHRA31	HRS	P-FPROT, P-MABS
892133	.	89SPHRA32	HRS	Q-FYELD, P-FPROT, P-MABS
892134	.	89SPHRA34	HRS	P-FYELD, P-MABS
892135	.	89SPHRA36	HRS	P-MABS
892136	.	89SPHRA35	HRS	P-FYELD, P-MABS
892137	.	89SPHRA38	HRS	Q-FYELD, Q-BABS, Q-LVOL, Q-BCRGR
892138	.	89SPHRA41	HWS	P-FYELD, P-FASH, P-BABS, P-MTIME, P-LVOL, P-BCRGR
892139	.	89SPHRA42	HRS	Q-FYELD, P-FASH, P-BABS, P-MTIME, P-LVOL, P-BCRGR
892140	.	89SPHRA44	HRS	P-FYELD, Q-BCRGR
892141	.	89RPT1	HRS	Q-FYELD, P-MABS
892142	.	89RPT6	HRS	Q-MSCOR, Q-MABS
892143	.	89RPT7	HRS	P-FYELD, P-BABS, P-LVOL, P-BCRGR
892144	.	89RPT8	HRS	P-FYELD, P-BABS, Q-MTIME, P-LVOL, P-BCRGR

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892145 MCKAY										
892146 .		89RPYT10	HRS	63.6	73.0	0.34	90.9	10.2	77	60.8
892147 WESTBRED		89RPYT12	HRS	64.8	71.6	0.37	87.8	11.8	77	60.1
892148 .		89RPYT13	HRS	63.2	71.9	0.35	89.2	12.3	79	60.9
892149 .		89RPYT14	HRS	64.0	68.6	0.34	86.3	11.9	75	58.5
892150 .		89RPYT16	HRS	64.0	72.7	0.35	90.1	11.5	81	59.3
892151 .		89RPYT18	HRS	66.4	67.7	0.28	88.4	11.2	86	62.9
892152 .		89RPYT19	HRS	64.4	72.7	0.33	91.1	9.9	81	60.5
892153 FCT'S'		89RPYT20	HRS	64.0	69.2	0.33	87.4	11.7	83	59.7
892154 .		5/89RPYT21	HRS	64.8	74.5	0.36	91.6	11.5	79	62.0
		89RPYT22	HRS	65.2	71.8	0.30	91.8	11.3	86	60.6
892155 .		89RPYT23	HRS	64.8	70.8	0.32	89.7	11.7	90	61.8
892156 .		89RPYT24	HRS	65.2	73.4	0.34	91.3	12.6	96	60.7
892157 .		89RPYT26	HRS	64.8	67.4	0.30	87.1	11.4	89	64.9
892158 TUI'S'		89RPYT27	HRS	64.8	71.7	0.33	90.1	11.7	83	60.8
892159 .		89RPYT29	HRS	63.6	71.0	0.37	87.3	10.0	83	63.5
892160 .		89RPYT30	HRS	64.4	69.9	0.39	85.0	9.6	87	59.8
892161 .		89RPYT31	HRS	64.0	71.6	0.37	87.9	10.1	90	58.6
892162 .		89RPYT33	HRS	64.0	71.3	0.40	86.0	11.1	93	59.2
892163 .		89RPYT34	HRS	64.8	67.7	0.38	83.3	12.1	92	58.6
892164 .		89RPYT37	HRS	63.6	70.8	0.32	89.7	11.7	81	61.5
892165 GIM'S'										
892166 .		89RPYT38	HRS	61.6	70.4	0.36	87.2	12.0	82	60.7
892167 .		89RPYT39	HRS	64.4	67.8	0.35	84.9	12.0	78	62.8
892168 .		89RPYT40	HRS	63.6	69.3	0.37	85.5	11.3	83	60.6
892169 STAR'S'		89RPYT41	HRS	60.8	69.2	0.39	84.3	10.8	85	60.4
		89RPYT42	HRS	62.8	71.3	0.38	87.0	10.2	91	61.1
892170 STAR'S'										
892171 STAR'S'		89RPYT43	HRS	62.4	69.1	0.42	82.7	11.2	92	60.6
892172 .		89RPYT44	HRS	62.4	70.4	0.41	84.6	10.7	96	59.3
892173 .		89RPYT46	HRS	62.8	69.0	0.40	83.6	13.0	81	60.4
892174 MCKAY		89RPYT54	HRS	64.0	71.0	0.40	85.7	11.0	87	60.7
		89RPYT60	HRS	64.8	71.9	0.31	91.3	10.3	77	60.4

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LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/ 3/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCGR
892145 MCKAY		89RPTY10	HRS	3H	59.2	61.0	4.2	925	1037	4
892146 .		89RPTY12	HRS	2H	60.1	60.3	3.2	955	967	4
892147 WESTBRED		89RPTY13	HRS	3H	62.4	62.1	3.3	960	941	3
892148 .		89RPTY14	HRS	2H	59.6	59.7	2.3	860	866	5
892149 .		89RPTY16	HRS	3H	60.0	60.5	2.9	890	921	6
892150 .		89RPTY18	HRS	8M	63.3	64.1	4.3	805	855	5
892151 .		89RPTY19	HRS	2H						
892152 .		89RPTY20	HRS	2H						
892153 FCT'S		89RPTY21	HRS	3H	62.7	63.2	2.5	975	1006	3
892154 .		89RPTY22	HRS	2H						
892155 .		89RPTY23	HRS	2H						
892156 .		89RPTY24	HRS	1H						
892157 .		89RPTY26	HRS	4H	66.5	67.1	4.0	775	812	6
892158 TUI'S		89RPTY27	HRS	2H	59.7	60.0	2.2	825	844	8
892159 .		89RPTY29	HRS	1H						
892160 .		89RPTY30	HRS	1H						
892161 .		89RPTY31	HRS	1H						
892162 .		89RPTY33	HRS	1H						
892163 .		89RPTY34	HRS	1H						
892164 .		89RPTY37	HRS	5H	62.4	62.7	4.8	865	884	5
892165 GIM'S		89RPTY38	HRS	2H	59.9	59.9	2.5	885	885	5
892166 .		89RPTY39	HRS	3H	64.0	64.0	2.6	935	935	5
892167 .		89RPTY40	HRS	2H						
892168 .		89RPTY41	HRS	1H						
892169 STAR'S		89RPTY42	HRS	3M						
892170 STAR'S		89RPTY43	HRS	2H						
892171 STAR'S		89RPTY44	HRS	2H						
892172 .		89RPTY46	HRS	2H						
892173 .		89RPTY54	HRS	2H	59.9	60.9	2.2	885	947	6
892174 MCKAY		89RPTY60	HRS	6M	59.9	61.6	3.5	875	980	4

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LABNUM	VARIETY	IDNO	CLASS	RMKS
892145 MCKAY		89RPT10	HRS	
892146 .		89RPT12	HRS	Q-MSCOR, Q-S-BCRGR
892147 WESTBRED		89RPT13	HRS	
892148 .		89RPT14	HRS	P-FYELD, Q-MTIME, P-LVOL, Q-BCRGR
892149 .		89RPT16	HRS	Q-BCRGR
892150 .		89RPT18	HRS	P-FYELD, P-LVOL, Q-BCRGR
892151 .		89RPT19	HRS	P-FPROT
892152 .		89RPT20	HRS	P-FYELD
892153 FCT'S'		89RPT21	HRS	
892154 .		89RPT22	HRS	
892155 .		89RPT23	HRS	Q-FYELD
892156 .		89RPT24	HRS	
892157 .		89RPT26	HRS	P-FYELD, VP-LVOL, Q-BCRGR
892158 TUI'S'		89RPT27	HRS	P-MTIME, P-LVOL, P-BCRGR
892159 .		89RPT29	HRS	Q-FYELD, P-FPROT
892160 .		89RPT30	HRS	P-FYELD, P-FPROT
892161 .		89RPT31	HRS	P-FPROT
892162 .		89RPT33	HRS	Q-FYELD, Q-FASH
892163 .		89RPT34	HRS	VP-FYELD
892164 .		89RPT37	HRS	Q-FYELD, P-LVOL, Q-BCRGR
892165 GIM'S'		89RPT38	HRS	Q-FYELD, P-LVOL, Q-BCRGR
892166 .		89RPT39	HRS	P-FYELD, Q-BCRGR
892167 .		89RPT40	HRS	P-FYELD
892168 .		89RPT41	HRS	P-FYELD, Q-FPROT
892169 STAR'S'		89RPT42	HRS	Q-FYELD, P-FPROT
892170 STAR'S'		89RPT43	HRS	P-FYELD, P-FASH, P-MSCOR
892171 STAR'S'		89RPT44	HRS	Q-FYELD, P-FASH, P-MSCOR, Q-FPROT
892172 .		89RPT46	HRS	P-FYELD
892173 .		89RPT54	HRS	Q-FYELD, P-MTIME, Q-BCRGR
892174 MCKAY		89RPT60	HRS	

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892175 .		89RPYT63	HRS	61.6	71.6	0.35	88.9	12.7	92	59.2
892176 .		89RPYT64	HRS	62.0	69.2	0.38	84.7	12.6	92	58.1
892177 .		89RPYT69	HRS	65.2	71.6	0.38	87.3	10.9	86	59.9
892178 .		89RPYT70	HRS	64.8	72.4	0.40	87.1	10.8	89	58.0
892179 .		89RPYT71	HRS	64.4	68.0	0.34	85.7	11.9	76	58.9
892180 WESTBRED										
892181 .		89RPYT74	HRS	62.8	71.8	0.34	89.7	11.7	80	61.2
892182 .		89RPYT76	HRS	63.7	70.4	0.41	84.6	11.3	83	59.1
892183 .		89RPYT77	HRS	60.1	69.5	0.40	84.1	12.2	73	59.0
892184 .		89RPYT78	HRS	64.8	72.8	0.39	88.1	12.0	82	59.5
892185 .		89RPYT79	HRS	63.6	72.9	0.31	92.4	12.3	86	59.9
892186 .		89RPYT81	HRS	64.5	69.0	0.39	84.1	13.8	83	59.0
892187 .		89RPYT84	HRS	64.0	69.2	0.35	86.4	13.9	83	58.4
892188 .		89RPYT86	HRS	64.4	70.6	0.36	87.4	12.9	79	58.8
892189 .		89RPYT88	HRS	63.3	70.8	0.41	85.0	11.0	90	58.5
892190 .		89RPYT91	HRS	63.2	70.3	0.37	86.6	12.4	90	62.5
892191 .		89RPYT92	HRS	64.6	68.2	0.41	82.3	11.1	75	58.4
892192 .		89RPYT94	HRS	64.0	71.2	0.38	86.9	11.1	88	60.7
892193 .		89RPYT98	HRS	64.2	70.5	0.44	83.2	10.3	83	60.1
892194 .		89RPYT99	HRS	64.0	68.7	0.41	82.9	11.4	87	59.9
892195 .		89RPYT100	HRS	62.7	70.5	0.41	84.7	11.5	83	59.2
892196 .		89RPYT101	HRS	63.5	68.9	0.44	81.4	10.7	86	59.2
892197 .		89RPYT102	HRS	63.6	66.5	0.41	80.4	11.3	88	59.6
892198 .		89RPYT105	HRS	63.6	70.4	0.43	83.5	10.7	86	59.2
892199 MCKAY		89RPYT106	HRS	65.0	68.5	0.38	84.1	11.1	90	59.7
892200 .		89RPYT109	HRS	63.6	71.5	0.34	89.3	11.8	77	60.1
892201 .		89RPYT110	HRS	63.3	67.0	0.43	79.9	11.8	90	59.0
892202 .		89RPYT111	HRS	63.0	72.6	0.41	86.9	12.0	79	59.7
892203 .		89RPYT112	HRS	63.7	70.6	0.34	88.4	13.1	92	63.8
892204 WESTBRED		89RPYT114	HRS	64.3	71.2	0.39	86.5	12.6	85	58.8
		89RPYT115	HRS	64.8	72.3	0.35	89.7	13.4	79	63.1

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LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/ 3/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
892175 .		89RPYT63	HRS	2H						
892176 .		89RPYT64	HRS	2H						
892177 .		89RPYT69	HRS	2H						
892178 .		89RPYT70	HRS	1H						
892179 .		89RPYT71	HRS	2H	59.0	59.1	2.2	840	846	6
892180 WESTBRED										
892181 .		89RPYT74	HRS	3H						
892182 .		89RPYT76	HRS	3M	62.1	62.4	3.2	960	979	3
892183 .		89RPYT77	HRS	3M						
892184 .		89RPYT78	HRS	2H						
		89RPYT79	HRS	2H	60.4	60.1	2.5	900	881	6
892185 .										
892186 .		89RPYT81	HRS	2H	61.0	59.2	2.1	885	773	6
892187 .		89RPYT84	HRS	2H						
892188 .		89RPYT86	HRS	2H	59.9	59.0	2.3	790	734	8
892189 ..		89RPYT88	HRS	1H						
		89RPYT91	HRS	4H	65.1	64.7	3.6	1065	1040	2
892190 ..										
892191 ..		89RPYT92	HRS	3M						
892192 ..		89RPYT94	HRS	3H						
892193 ..		89RPYT98	HRS	2H	60.5	61.4	3.3	900	956	5
892194 ..		89RPYT99	HRS	2H						
		89RPYT100	HRS	1H						
892195 ..										
892196 ..		89RPYT101	HRS	1H						
892197 ..		89RPYT102	HRS	1H						
892198 ..		89RPYT105	HRS	1H						
892199 MCKAY		89RPYT106	HRS	2H						
		89RPYT109	HRS	3H	61.1	61.3	3.6	1000	1012	2
892200 .										
892201 .		89RPYT110	HRS	1H						
892202 .		89RPYT111	HRS	2H	59.9	59.9	2.1	940	940	6
892203 .		89RPYT112	HRS	4H	66.1	65.0	3.4	1110	1042	2
892204 WESTBRED		89RPYT114	HRS	1H						
		89RPYT115	HRS	3H	65.7	64.3	3.3	1005	918	4

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LABNUM	VARIETY	IDNO	CLASS	RMKS
892175 .		89RPT63	HRS	
892176 .		89RPT64	HRS	P-FYELD
892177 .		89RPT69	HRS	
892178 .		89RPT70	HRS	Q-MSCOR
892179 .		89RPT71	HRS	P-FYELD, P-MTIME, P-LVOL, Q-BCRGR
892180 WESTBRED				
892181 .		89RPT74	HRS	
892182 .		89RPT76	HRS	Q-FYELD
892183 .		89RPT77	HRS	P-FYELD
892184 .		89RPT78	HRS	
		89RPT79	HRS	P-LVOL, Q-BCRGR
892185 .				
892186 .		89RPT81	HRS	P-FYELD, P-MTIME, VP-LVOL, Q-BCRGR
892187 .		89RPT84	HRS	P-FYELD
892188 .		89RPT86	HRS	Q-FYELD, P-MTIME, VP-LVOL, P-BCRGR
892189 ..		89RPT88	HRS	Q-FYELD, Q-MSCOR
		89RPT91	HRS	Q-FYELD
892190 ..				
892191 ..		89RPT92	HRS	P-FYELD, P-MSCOR
892192 ..		89RPT94	HRS	Q-FYELD, Q-BCRGR
892193 ..		89RPT98	HRS	Q-FYELD, P-FASH, P-MSCOR, P-FPROT
892194 ..		89RPT99	HRS	P-FYELD, P-MSCOR
		89RPT100	HRS	Q-FYELD, P-MSCOR
892195 ..				
892196 ..		89RPT101	HRS	P-FYELD, P-MSCOR, Q-FPROT
892197 ..		89RPT102	HRS	VP-FYELD, P-MSCOR
892198 ..		89RPT105	HRS	Q-FYELD, P-MSCOR, Q-FPROT
892199 MCKAY		89RPT106	HRS	P-FYELD
		89RPT109	HRS	
892200 .				
892201 .		89RPT110	HRS	P-FYELD, P-MSCOR
892202 .		89RPT111	HRS	Q-MSCOR, P-MTIME, Q-BCRGR
892203 .		89RPT112	HRS	Q-FYELD
892204 WESTBRED		89RPT114	HRS	Q-MSCOR
		89RPT115	HRS	

NURSCO 81		PENDLETON, OR					W.E. KRONSTAD				
LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/	
892205 .		89RPTY116	HRS	63.2	71.9	0.39	87.2	11.5	88	61.0	
892206 .		89RPTY117	HRS	62.8	70.8	0.37	87.0	12.9	94	61.9	
892207 .		89RPTY118	HRS	65.2	72.1	0.35	89.4	11.8	88	61.7	
892208 .		89RPTY119	HRS	65.6	71.3	0.35	88.6	12.2	85	61.6	
892209 .		89RPTY120	HRS	66.0	69.3	0.35	86.5	13.1	81	59.7	
892210 .		89RPTY122	HRS	64.8	70.4	0.37	86.6	13.6	88	59.6	
892211 .		89RPTY124	HRS	63.6	70.7	0.32	89.5	12.7	84	60.3	
892212 .		89RPTY130	HRS	62.8	70.1	0.39	85.3	13.5	94	61.7	
892213 .		89RPTY132	HRS	63.2	68.5	0.38	84.1	14.1	99	59.6	
892214 BORAH		89RPTY135	HRS	62.4	72.6	0.30	92.6	13.8	81	62.1	

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LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
892205 .		89RPYT116	HRS	2H						
892206 .		89RPYT117	HRS	2H	61.5	60.6	2.1	1015	959	4
892207 .		89RPYT118	HRS	3H	61.7	61.9	2.8	955	967	6
892208 .		89RPYT119	HRS	3H	63.0	62.8	2.3	985	973	5
892209 .		89RPYT120	HRS	1H						
892210 .		89RPYT122	HRS	1H						
892211 .		89RPYT124	HRS	3H	62.2	61.5	3.4	880	837	5
892212 .		89RPYT130	HRS	2H	63.4	61.9	2.2	955	862	6
892213 .		89RPYT132	HRS	1H						
892214 BORAH		89RPYT135	HRS	2H	64.1	62.3	2.0	1050	938	3

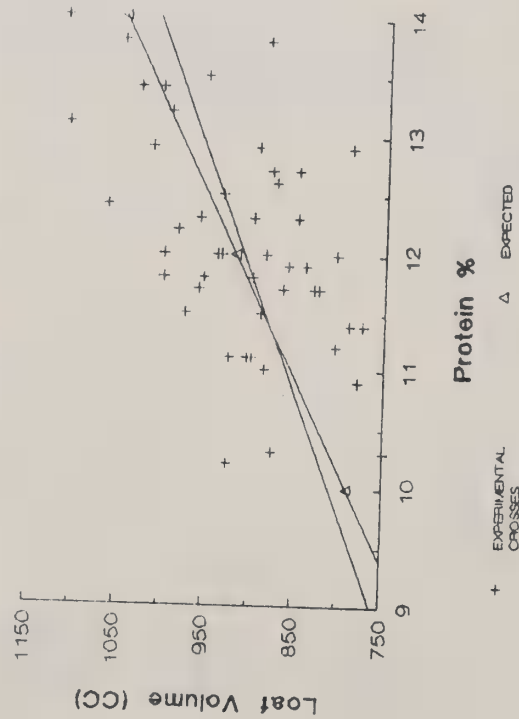
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PENDLETON, OR

LABNUM	VARIETY	IDNO	CLASS	RMKS
892205 .		89RPTY116	HRS	
892206 .		89RPTY117	HRS	Q-FYELD, P-MTIME, Q-S-BCRGR
892207 .		89RPTY118	HRS	Q-BCRGR
892208 .		89RPTY119	HRS	Q-BCRGR
892209 .		89RPTY120	HRS	P-FYELD
892210 .		89RPTY122	HRS	Q-FYELD
892211 .		89RPTY124	HRS	P-LVOL, Q-BCRGR
892212 .		89RPTY130	HRS	Q-FYELD, P-MTIME, P-LVOL, Q-BCRGR
892213 .		89RPTY132	HRS	P-FYELD
892214 BORAH		89RPTY135	HRS	

LOAF VOLUME VS PROTEIN



COMMENTS: This nursery averaged 12% flour protein content. Major deficiencies of this nursery were questionable to poor flour yield, loaf volume and/or bread crumb grain. Bread was baked on the check varieties and about one-half of the selections in this nursery. The others were not baked due to poor mixing properties shown by the mixograph (weakness, short mixing time, low absorption) and/or low protein. Approximately one-half of those baked had acceptable loaf volume for their flour protein level. See plot of loaf volume vs. flour protein. One selection footnoted - No. 89RPTY21 had excellent flour yield and good loaf volume and crumb grain. See "Remarks" for other deficiencies.

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892215	MCKAY	89SPHWA1	HRS	61.6	71.3	0.36	88.1	13.6	78	63.6
892216	WESTBRED	89SPHWA2	HRS	62.8	71.9	0.32	90.8	13.3	78	62.7
892217	KLASSIC	89SPHWA3	HWS	64.8	73.4	0.30	93.4	13.0	70	62.3
892218	.	89SPHWA7	HWS	63.2	68.0	0.39	83.0	12.2	80	59.9
892219	.	89SPHWA10	HWS	62.4	69.5	0.36	86.2	9.8	77	57.5
892220	.									
892221	.	89SPHWA15	HWS	63.2	70.1	0.33	88.4	11.7	84	58.5
892222	.	89SPHWA17	SWS	62.4	66.0	0.31	86.4	11.7	31	59.6
892223	.	89SPHWA26	HWS	63.6	73.2	0.36	90.1	12.3	88	56.7
892224	.	89SPHWA27	HWS	63.6	72.1	0.32	91.0	12.3	84	57.5
892225	.	89SPHWA30	HWS	65.2	68.7	0.32	87.5	11.0	85	57.2
892226	.									
892227	.	89SPHWA32	HWS	64.0	73.0	0.41	87.2	11.5	83	55.9
892228	.	89SPHWA35	HWS	64.4	69.4	0.40	83.9	10.4	80	57.2
892229	.	89SPHWA36	HWS	64.8	66.7	0.40	81.2	9.8	82	59.0
892230	.	89SPHWA37	HWS	68.0	70.4	0.35	87.6	9.3	80	57.3
892231	.	89SPHWA39	HWS	66.4	70.0	0.39	85.2	10.4	80	57.9
892232	.									
892233	.	89SPHWA40	HWS	68.8	70.1	0.37	86.2	11.1	81	60.6
892234	.	89SPHWA42	HWS	66.0	70.3	0.39	85.4	12.7	84	58.2
892235	.	89SPHWA44	HWS	66.0	72.3	0.44	84.6	13.4	87	55.9
892236	.	89WPTT1	HWS	65.6	70.9	0.39	86.1	12.8	79	57.0
892237	.	89WPTT2	HWS	62.8	70.7	0.37	86.9	13.4	81	57.4
892238	BAU'S									
892239	MCKAY	89WPTT7	HWS	64.0	72.6	0.33	91.2	11.6	86	57.7
892240	BAU'S	89WPTT12	HWS	64.0	73.1	0.35	90.5	12.4	84	58.8
892241	.	89WPTT14	HWS	64.0	72.7	0.34	90.7	12.6	94	57.7
892242	.	89WPTT16	HWS	62.8	73.1	0.32	92.1	12.0	84	56.2
892243	.	89WPTT17	HRS	62.4	72.6	0.30	92.7	12.4	82	58.1
892244	.									
892245	.	89WPTT18	HWS	62.8	71.8	0.34	89.7	12.5	81	56.7
892246	.	89WPTT19	HWS	64.4	69.7	0.36	86.4	12.0	77	57.5
892247	.	89WPTT20	HWS	63.6	67.6	0.39	82.7	13.0	77	57.5
892248	.	89WPTT27	HWS	62.4	70.2	0.33	88.5	13.5	84	57.2
892249	.	89WPTT28	HWS	64.0	67.1	0.38	82.6	10.3	79	57.9

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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PENDLETON, OR

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LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
892215	MCKAY	89SPHWA1	HRS	3H	65.4	63.8	3.3	1055	956	2
892216	WESTBRED	89SPHWA2	HRS	3H	64.2	62.9	3.5	1010	929	2
892217	KLASSIC	89SPHWA3	HWS	5H	63.5	62.5	4.6	1065	1003	2
892218	.	89SPHWA7	HWS	3H	60.3	60.1	3.3	890	878	5
892219	.	89SPHWA10	HWS	8M						
892220	.	89SPHWA15	HWS	4M	58.4	58.7	2.7	800	819	6
892221	.	89SPHWA17	SWS	3H						
892222	.	89SPHWA26	HWS	3H	57.2	56.9	2.9	945	926	4
892223	.	89SPHWA27	HWS	3M						
892224	.	89SPHWA30	HWS	2H	56.4	57.4	2.5	720	782	7
892225	.	89SPHWA32	HWS	2H						
892226	.	89SPHWA35	HWS	7M						
892227	.	89SPHWA36	HWS	6M	57.0	59.2	3.2	655	791	9
892228	.	89SPHWA37	HWS	7M						
892229	.	89SPHWA39	HWS	7M						
892230	.	89SPHWA40	HWS	4H	59.9	60.8	2.7	840	896	5
892231	.	89SPHWA42	HWS	2H	59.1	58.4	2.4	945	902	6
892232	.	89SPHWA44	HWS	2H	57.5	56.1	2.6	925	838	5
892233	.	89WPTY1	HWS	4M	58.0	57.2	3.2	930	880	6
892234	.	89WPTY2	HWS	3H	59.5	58.1	3.4	960	873	3
892235	.	89WPTY7	HWS	4H	58.5	58.9	3.5	890	915	4
892236	.	89WPTY12	HWS	3H	60.4	60.0	3.0	945	920	4
892237	.	89WPTY14	HWS	3H	59.5	58.9	3.1	955	918	5
892238	BAU'S	89WPTY16	HWS	3H	57.4	57.4	2.9	890	890	8
892239	MCKAY	89WPTY17	HRS	3H	59.7	59.3	3.1	1025	1000	2
892240	BAU'S	89WPTY18	HWS	3H	58.4	57.9	2.8	955	924	8
892241	.	89WPTY19	HWS	3H	58.7	58.7	2.9	920	920	6
892242	.	89WPTY20	HWS	3H	59.7	58.7	3.6	950	888	3
892243	.	89WPTY27	HWS	2H						
892244	.	89WPTY28	HWS	2H						

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LABNUM	VARIETY	IDNO	CLASS	RMKS
892215 MCKAY		89SPHWA1	HRS	
892216 WESTBRED		89SPHWA2	HRS	
892217 KLASSIC		89SPHWA3	HWS	
892218 .		89SPHWA7	HWS	P-FYELD, P-MSCOR, P-LVOL, Q-BCRGR
892219 .		89SPHWA10	HWS	Q-FYELD, VP-FPROT
892220 .		89SPHWA15	HWS	Q-FYELD, P-LVOL, Q-BCRGR
892221 .		89SPHWA17	SWS	VP-FYELD
892222 .		89SPHWA26	HWS	P-BABS, Q-S-BCRGR
892223 .		89SPHWA27	HWS	
892224 .		89SPHWA30	HWS	P-FYELD, P-BABS, VP-LVOL, P-BCRGR
892225 .		89SPHWA32	HWS	
892226 .		89SPHWA35	HWS	P-FYELD
892227 .		89SPHWA36	HWS	VP-FYELD, P-FPROT, VP-LVOL, P-BCRGR
892228 .		89SPHWA37	HWS	
892229 .		89SPHWA39	HWS	Q-FYELD
892230 .		89SPHWA40	HWS	Q-FYELD, Q-LVOL, Q-BCRGR
892231 .		89SPHWA42	HWS	Q-FYELD, Q-LVOL, Q-BCRGR
892232 .		89SPHWA44	HWS	P-FASH, P-MSCOR, P-BABS, P-LVOL, Q-BCRGR
892233 .		89WPTY1	HWS	P-BABS, P-LVOL, Q-BCRGR
892234 .		89WPTY2	HWS	P-BABS, P-LVOL
892235 .		89WPTY7	HWS	Q-S-BCRGR
892236 .		89WPTY12	HWS	Q-S-BCRGR
892237 .		89WPTY14	HWS	Q-BCRGR
892238 BAU'S		89WPTY16	HWS	P-BABS, P-LVOL, P-BCRGR
892239 MCKAY		89WPTY17	HRS	
892240 BAU'S		89WPTY18	HWS	P-BABS, P-BCRGR
892241 .		89WPTY19	HWS	Q-FYELD, Q-BCRGR
892242 .		89WPTY20	HWS	P-FYELD, P-LVOL
892243 .		89WPTY27	HWS	
892244 .		89WPTY28	HWS	P-FYELD, P-FPROT

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PENDLETON, OR

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892245 .		89WPTY30	HWS	62.8	70.8	0.40	85.4	10.9	91	57.3
892246 .		89WPTY35	HWS	63.2	70.4	0.38	86.0	12.6	80	58.0
892247 .		89WPTY37	HWS	63.6	72.0	0.38	87.7	13.5	89	56.1
892248 .		89WPTY38	HWS	63.6	72.4	0.36	89.2	14.4	86	57.7
892249 .		89WPTY41	HWS	59.2	70.4	0.36	87.2	14.3	95	57.9
892250 .		89WPTY51	HWS	63.2	70.3	0.35	87.5	11.9	83	54.5
892251 .		89WPTY57	HWS	64.8	71.8	0.32	90.6	13.0	83	53.7
892252 .		89WPTY59	HWS	63.2	71.8	0.33	90.1	13.1	89	55.9
892253 .		89WPTY61	HWS	63.2	69.7	0.35	86.9	11.6	86	58.8
892254 .		89WPTY64	HWS	62.8	70.4	0.35	87.7	10.8	85	57.1
892255 .		89WPTY65	HWS	62.0	68.8	0.34	86.5	12.4	84	57.1
892256 .		89WPTY69	HWS	63.6	71.7	0.32	90.6	13.6	89	55.4
892257 .		89WPTY72	HWS	62.8	69.1	0.35	86.4	12.4	77	55.4
892258 .		89WPTY73	HWS	62.8	70.7	0.31	90.1	10.8	80	55.2
892259 .		89WPTY74	HWS	64.0	70.8	0.35	88.1	12.0	83	55.5
892260 .		89WPTY77	HWS	62.8	69.0	0.37	85.2	12.0	88	55.4
892261 .		89WPTY80	HWS	64.0	71.0	0.34	88.9	12.0	82	56.9
892262 .		89WPTY81	HWS	64.4	70.8	0.34	88.7	11.2	82	55.7
892263 .		89WPTY85	HWS	64.4	73.9	0.36	90.9	11.0	82	55.6
892264 .		89WPTY86	HWS	62.4	68.3	0.41	82.4	12.7	85	59.1
892265 .		89WPTY89	HWS	64.0	72.4	0.37	88.8	12.8	88	56.4
892266 MCKAY		89WPTY90	HRS	62.4	72.1	0.36	89.1	11.9	79	57.3
892267 .		89WPTY91	HWS	64.0	73.5	0.34	91.4	12.4	84	58.5
892268 .		89WPTY97	HWS	62.0	61.0	0.34	78.3	14.6	113	60.8
892269 .		89WPTY98	HWS	63.2	70.3	0.35	87.5	12.7	85	57.3
892270 .		89WPTY99	HWS	63.6	70.8	0.39	86.0	11.7	82	55.6
892271 .		89WPTY101	HWS	63.2	69.1	0.41	83.3	15.0	77	61.0
892272 .		89WPTY102	HWS	62.8	70.0	0.39	85.2	12.3	79	58.2
892273 .		89WPTY103	HWS	62.4	71.9	0.44	84.7	11.7	91	58.5
892274 .		89WPTY104	HWS	63.2	69.9	0.35	87.2	12.6	81	58.1

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LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/ 3/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
892245 .		89WPTY30	HWS	2H						
892246 .		89WPTY35	HWS	3H						
892247 .		89WPTY37	HWS	2H	59.8	59.2	3.9	930	893	3
892248 .		89WPTY38	HWS	2H	61.3	58.9	3.0	1090	941	2
892249 .		89WPTY41	HWS	3H	61.4	59.1	2.4	975	832	3
892250 .										
892251 .		89WPTY51	HWS	3M						
892252 .		89WPTY57	HWS	3M						
892253 .		89WPTY59	HWS	2H						
892254 .		89WPTY61	HWS	4H						
		89WPTY64	HWS	2H	59.6	60.0	3.2	855	880	6
892255 .					57.1	58.3	3.0	860	934	7
892256 .		89WPTY65	HWS	2H						
892257 .		89WPTY69	HWS	2H	58.7	58.3	2.5	950	925	5
892258 .		89WPTY72	HWS	4M	60.2	58.6	2.8	995	896	3
892259 .		89WPTY73	HWS	3M						
		89WPTY74	HWS	2H						
892260 .										
892261 .		89WPTY77	HWS	1H						
892262 .		89WPTY80	HWS	4M						
892263 .		89WPTY81	HWS	4M						
892264 .		89WPTY85	HWS	1H						
		89WPTY86	HWS	2H	61.5	60.8	2.2	1000	957	4
892265 .										
892266 MCKAY		89WPTY89	HWS	4M						
892267 .		89WPTY90	HWS	2H						
892268 .		89WPTY91	HWS	1H	58.4	58.5	2.9	965	971	3
892269 .		89WPTY97	HWS	2H						
		89WPTY98	HWS	2H	63.6	61.0	2.5	925	764	6
892270 .					59.2	58.5	2.6	900	857	6
892271 .		89WPTY99	HWS	3M						
892272 .		89WPTY101	HWS	3H						
892273 .		89WPTY102	HWS	2H	65.7	62.7	2.9	1005	819	4
892274 .		89WPTY103	HWS	1H	60.7	60.4	2.9	890	871	6
		89WPTY104	HWS	3M						

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PENDLETON, OR

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LABNUM	VARIETY	IDNO	CLASS	RMKS
892245 .		89WPT30	HWS	Q-MSCOR
892246 .		89WPT35	HWS	Q-FYELD, Q-MSCOR, Q-LVOL
892247 .		89WPT37	HWS	
892248 .		89WPT38	HWS	
892249 .		89WPT41	HWS	Q-FYELD, Q-MTIME, P-LVOL
892250 .				
892251 .		89WPT51	HWS	Q-FYELD, P-MABS
892252 .		89WPT57	HWS	P-MABS
892253 .		89WPT59	HWS	P-MABS
892254 .		89WPT61	HWS	Q-FYELD, P-LVOL, Q-BCRGR
		89WPT64	HWS	Q-FYELD, P-Q-BCRGR
892255 .				
892256 .		89WPT65	HWS	P-FYELD, Q-BCRGR
892257 .		89WPT69	HWS	Q-LVOL
892258 .		89WPT72	HWS	P-FYELD, P-MABS
892259 .		89WPT73	HWS	P-MABS
		89WPT74	HWS	P-MABS
892260 .				
892261 .		89WPT77	HWS	P-FYELD, P-MABS
892262 .		89WPT80	HWS	P-MABS
892263 .		89WPT81	HWS	P-MABS
892264 .		89WPT85	HWS	P-MABS
		89WPT86	HWS	P-FYELD, P-MTIME, Q-S-BCRGR
892265 .				
892266 MCKAY		89WPT89	HWS	P-MABS
892267 .		89WPT90	HRS	
892268 .		89WPT91	HWS	
892269 .		89WPT97	HWS	VP-FYELD, VP-FHRD, VP-LVOL, Q-BCRGR
		89WPT98	HWS	Q-FYELD, P-LVOL, Q-BCRGR
892270 .				
892271 .		89WPT99	HWS	Q-MSCOR, P-MABS
892272 .		89WPT101	HWS	P-FYELD, P-LVOL, Q-S-BCRGR
892273 .		89WPT102	HWS	Q-FYELD, P-LVOL, Q-BCRGR
892274 .		89WPT103	HWS	P-FASH, P-MSCOR
		89WPT104	HWS	Q-FYELD

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W.E. KRONSTAD

PENDLETON, OR

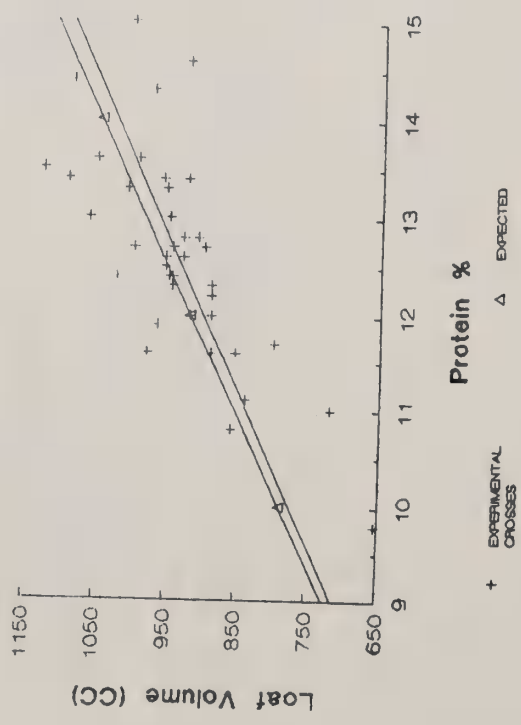
LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892275 MCKAY										
892276 KLASIC		89WPTYT110	HRS	62.0	71.7	0.36	88.5	13.4	79	60.5
892277 .		89WPTYT111	HWS	64.4	74.9	0.34	92.9	13.5	71	62.9
892278 .		89WPTYT115	HWS	63.6	70.9	0.45	82.9	12.8	82	59.3
892279 .		89WPTYT116	HWS	60.4	70.4	0.42	84.0	11.6	85	60.3
		89WPTYT122	HWS	62.8	73.6	0.41	88.0	13.5	87	57.3
892280 .										
892281 OR 484013		89WPTYT133	HWS	63.2	72.5	0.39	87.8	13.3	94	57.4
		89WPTYT135	HWS	62.8	73.2	0.40	88.2	13.3	92	60.0

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PENDLETON, OR		W.E. KRONSTAD		
LABNUM	VARIETY	IDNO	CLASS	RMKS
892275 MCKAY		89WPTY110	HRS	
892276 KLASIC		89WPTY111	HWS	
892277 .		89WPTY115	HWS	P-FASH, P-MSCOR, P-LVOL, Q-BCRGR
892278 .		89WPTY116	HWS	Q-FYELD, P-MSCOR, Q-BCRGR
892279 .		89WPTY122	HWS	
892280 .		89WPTY133	HWS	
892281 OR 484013		89WPTY135	HWS	P-LVOL, Q-S-BCRGR

COMMENTS: This nursery averaged 12% flour protein content. The major deficiencies of several selections in this nursery were questionable and/or poor flour yield, bake absorption, loaf volume and crumb grain. Several selections were not bread baked due to having either low flour protein and/or poor mixing properties. The baking absorption of most of the selections in this nursery was quite low for their flour protein level, however, the absorption for the check varieties also was reasonably low. See plot of loaf volume vs. flour protein and "Remarks".

LOAF VOLUME VS PROTEIN



NURSCO 83

LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892282 HATTON		CI17772	HRW	65.4	68.5	0.36	80.7	12.0	60	66.8
892283 WESTON		CI17727	HRW	64.3	67.2	0.35	79.3	11.9	40	65.8
892284 BLIZZARD		PI512302	HRW	64.7	70.2	0.34	85.2	11.9	55	64.6
892285 BATUM		PI495013	HRW	63.2	68.9	0.35	81.9	11.0	46	64.3
892286 ANDREWS		PI512282	HRW	62.3	68.6	0.34	82.4	12.1	43	63.2
892287 BUCHANAN										
892288 N7701501/VH078279		WA7620	HRW	63.2	68.3	0.35	82.0	10.4	44	63.6
892289 286011/ANDREWS		WA7649	HRW	64.4	65.8	0.34	78.0	12.1	47	65.8
892290 PI512281/ID735103		WA7651	HRW	63.7	69.5	0.34	84.1	12.1	54	65.6
892291 WA5514/ITANA//ID092		WA7652	HRW	64.1	69.8	0.34	83.6	11.8	45	65.6
892292 NE75424/ID51021				63.5	67.4	0.36	80.0	12.4	57	63.2
892293 NE77663/WA6815		WA7657	HRW	63.7	68.1	0.35	81.4	12.8	49	68.6
892294 NSR/CER//SKW321		WA7658	HRW	64.2	71.5	0.34	86.4	11.4	67	61.4
892295 N81016/NE077663		WA7659	HRW	64.1	67.3	0.40	77.4	12.6	62	63.4
892296 14484//BNK/GNS/3/HTN		N8612803	HRW	64.0	70.9	0.36	84.8	12.9	60	62.8
		N8701001	HRW	65.4	71.6	0.38	84.5	11.3	56	63.4
892297 ID51022/WA6815										
892298 NSR/286011//SDY/ID5010		N8704601	HRW	63.6	70.3	0.35	85.1	10.7	55	65.6
892299 NSR/STK//NLY		N8708202	HRW	64.0	65.9	0.41	74.6	11.4	48	66.5
892300 N7000063/K71056//UT92712		N8708501	HRW	64.4	66.8	0.37	77.9	10.6	49	64.0
892301 N7000063/K71056//N780440		WA7650	HRW	64.3	67.5	0.36	79.3	10.9	48	65.7
		WA7670	HRW	63.8	63.5	0.32	74.6	11.0	47	66.8

1/ Observed values corrected to 14% moisture basis.
3/ Absorption at 14% moisture corrected to 12% protein.

5/ Particularly promising overall quality characteristics.
6/ Promising overall quality characteristics.

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
892282	HATTON	CI17772	HRW	2H	66.5	66.5	3.1	940	940	3
892283	WESTON	CI17727	HRW	2H	65.9	66.0	2.3	970	976	4
892284	BLIZZARD	PI1512302	HRW	4H	64.7	64.8	3.1	875	881	5
892285	BATUM	PI495013	HRW	2H	63.5	64.5	2.1	840	902	5
892286	ANDREWS	PI1512282	HRW	4H	64.5	64.4	3.1	875	869	6
892287	BUCHANAN									
892288	N7701501/VH078279	WA7620	HRW	4H	63.7	65.3	3.3	820	919	7
892289	286011/ANDREWS	WA7649	HRW	5H	67.1	67.0	4.6	910	904	5
892290	PI1512281/ID735103	WA7651	HRW	4H	66.9	66.8	3.7	875	869	5
892291	WA5514/ITANA//ID092	WA7652	HRW	4H	66.6	66.8	3.4	850	862	6
892292	NE75424/ID51021	WA7657	HRW	1H	63.8	63.4	2.0	790	765	8
892293	NE77663/WA6815	WA7657	HRW	4H	70.6	69.8	3.4	915	865	3
892294	NSR/CER//SXU321	WA7658	HRW	4M	61.5	62.1	2.5	860	897	6
892295	N81016/NEO77663	WA7659	HRW	6H	65.2	64.6	5.8	930	893	2
892296	14484//BNK/GNS/3/HTN	N8612803	HRW	2H	64.4	63.5	2.8	930	874	3
		N8701001	HRW	5H	63.9	64.6	4.3	905	948	3
892297	ID51022/WA6815	N8704601	HRW	5H	65.5	66.8	4.5	870	951	3
892298	NSR/286011//SDY/ID5010	N8708202	HRW	4H	68.1	68.7	3.9	975	1012	5
892299	NSR/STK//NLY	N8708501	HRW	4M	63.8	65.2	3.1	850	937	6
892300	N7000063/K71056//UT92712	WA7650	HRW	4H	65.8	66.9	4.4	830	898	4
892301	N7000063/K71056//N780440	WA7670	HRW	5H	67.0	68.0	5.5	835	897	3

NURSCO 83

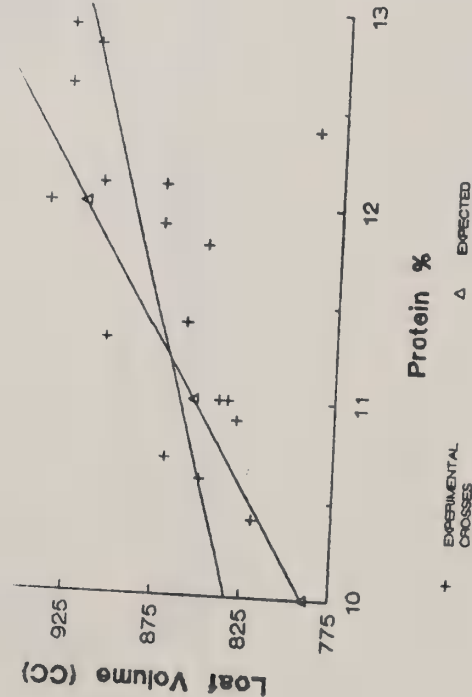
LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	RMKS
892282	HATTON	CI11772	HRW	
892283	WESTON	CI11727	HRW	
892284	BLIZZARD	PI512302	HRW	
892285	BATUM	PI495013	HRW	
892286	ANDREWS	PI512282	HRW	
892287	BUCHANAN		HRW	
892288	N7701501/VH078279	WA7620	HRW	P-FYELD,Q-LVOL,Q-BCRGR
892289	286011/ANDREWS	WA7649	HRW	P-LVOL,Q-BCRGR
892290	PI512281/ID735103	WA7651	HRW	P-LVOL,Q-BCRGR
892291	WA5514/ITANA//ID092	WA7652	HRW	Q-FYELD,P-MTIME,P-LVOL,P-BCRGR
892292	NE75424/ID51021		HRW	Q-FYELD,P-LVOL
892293	NE77663/WA6815	WA7657	HRW	Q-LVOL,Q-BCRGR
892294	NSR/CER//SXW321	WA7658	HRW	Q-FYELD,P-FASH,P-MSCOR,Q-LVOL
892295	N81016/NEO77663	WA7659	HRW	P-LVOL
892296	14484//BNK/GNS/3/HTN	N8612803	HRW	
892297	ID51022/WA6815	N8701001	HRW	
892298	NSR/286011//SDY/ID5010	N8704601	HRW	
892299	NSR/STK//NLY	N8708202	HRW	P-FYELD,Q-BCRGR
892300	N7000063/K71056//UT92712	N8708501	HRW	P-FYELD,Q-BCRGR
892301	N7000063/K71056//N780440	WA7650	HRW	Q-FYELD,Q-LVOL,Q-S-BCRGR
		WA7670	HRW	P-FYELD,Q-LVOL

LOAF VOLUME VS PROTEIN

COMMENTS: This nursery averaged 12% flour protein. Some of the check varieties showed questionable to poor baking properties (loaf volume and crumb grain) and also questionable flour yields. Comparisons of the selections to the check varieties may not be too reliable. In general, the milling properties were questionable or poor on some selections. Several selections had questionable or poor bread loaf volume as well as crumb grain. See plot of loaf volume vs flour protein and "Remarks".



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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892302		N8801501	HRW	60.7	68.6	0.40	79.2	14.3	53	62.4
892303		N8801701	HRW	62.6	68.0	0.37	79.8	12.5	44	66.1
892304		N8801803	HRW	61.5	68.2	0.37	80.9	13.7	46	64.0
892305		N8802001	HRW	62.8	69.3	0.30	86.3	14.7	66	65.3
892306		N8802302	HRW	62.7	67.7	0.34	81.8	12.2	43	63.9
892307		N8802303	HRW	63.7	69.7	0.36	83.4	12.2	43	62.5
892308		N8802902	HRW	62.8	71.7	0.38	86.4	13.1	48	63.8
892309		N8803101	HRW	63.5	68.5	0.38	81.3	12.9	48	63.3
892310		N8803402	HRW	63.6	65.4	0.38	76.3	13.0	55	65.5
892311		N8803403	HRW	63.9	68.4	0.36	80.6	12.9	53	64.7
892312		N8803405	HRW	64.2	67.2	0.37	78.5	12.9	54	65.5
892313		6/ N8803408	HRW	63.1	69.8	0.33	86.0	12.7	55	66.3
892314 HATTON			HRW	65.1	70.1	0.35	84.7	12.6	53	65.4
892315		N8804801	HRW	63.4	69.9	0.38	83.0	13.8	43	64.8
892316		N8804802	HRW	63.4	68.2	0.39	79.9	13.7	41	65.3
892317		N8805702	HRW	62.9	71.0	0.38	84.2	12.3	47	66.5
892318		D8804701	HRW	61.6	70.6	0.39	83.4	12.9	51	63.6
892319		D8806301	HRW	63.1	70.8	0.37	84.6	13.0	50	65.3
892320 HATTON			HRW	65.2	70.4	0.37	84.1	12.8	51	64.7
892321		N8700902	HRW	61.4	68.8	0.41	79.7	14.0	64	65.3
892322		N8806620	HRW	60.4	70.1	0.39	83.0	13.9	51	63.3
892323		N8807405	HRW	64.0	71.1	0.36	85.9	12.8	52	66.2
892324		N8807806	HRW	61.2	69.0	0.36	81.9	13.0	47	66.5
892325		N8807903	HRW	61.6	69.7	0.40	80.8	13.9	47	62.8
892326		N8808001	HRW	61.9	69.8	0.39	80.9	14.1	50	61.1
892327		N8809501	HRW	63.1	69.0	0.35	82.0	13.7	49	65.2
892328		N8809601	HRW	61.0	72.8	0.41	85.3	14.6	46	65.2
892329		D8809001	HRW	63.3	68.4	0.39	78.8	13.0	41	65.3
892330 HATTON			HRW	64.8	69.6	0.37	81.4	12.7	45	68.0
892331		N8807408	HRW	61.6	70.2	0.38	82.8	13.1	45	66.3

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 13% protein.

4/ Observed values corrected to 13% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

NURSCO 84

LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
892302 .		N8801501	HRW	2H	63.4	62.1	2.2	940	859	5
892303 .		N8801701	HRW	5H	65.8	66.3	3.5	935	966	5
892304 .		N8801803	HRW	2H	64.9	64.2	2.2	1015	972	4
892305 .		N8802001	HRW	2H	67.2	65.5	2.1	1055	950	4
892306 .		N8802302	HRW	2H	63.3	64.1	2.3	840	890	4
892307 .		N8802303	HRW	2H	61.9	62.7	2.9	900	950	5
892308 .		N8802902	HRW	3H	64.1	64.0	3.0	865	859	6
892309 .		N8803101	HRW	2H	63.4	63.5	2.6	885	891	4
892310 .		N8803402	HRW	3H	65.7	65.7	3.1	980	980	4
892311 .		N8803403	HRW	4H	64.8	64.9	4.0	930	936	3
892312 .		N8803405	HRW	2H	66.6	66.7	2.9	955	961	4
892313 .		N8803408	HRW	4H	67.2	67.5	3.6	955	974	3
892314 HATTON			HRW	2H	65.2	65.6	2.5	895	920	5
892315 .		N8804801	HRW	2H	65.8	65.0	2.1	960	910	4
892316 .		N8804802	HRW	2H	66.2	65.5	2.5	995	952	3
892317 .		N8805702	HRW	2H	66.0	66.7	2.5	870	913	5
892318 .		D8804701	HWW	2H	63.7	63.8	2.3	915	921	5
892319 .		D8806301	HWW	2H	66.5	66.5	2.5	910	910	3
892320 HATTON			HRW	2H	65.7	65.9	2.4	885	897	4
892321 .		N8700902	HRW	3H	67.5	66.5	3.6	955	893	4
892322 .		N8806620	HRW	2H	64.4	63.5	2.3	870	814	6
892323 .		N8807405	HRW	5H	67.2	67.4	4.3	890	902	5
892324 .		N8807806	HRW	3H	67.7	67.7	2.9	980	980	3
892325 .		N8807903	HRW	3H	64.9	64.0	3.0	920	864	4
892326 .		N8808001	HRW	1H	62.4	61.3	1.3	780	712	6
892327 .		N8809501	HRW	5H	66.1	65.4	4.1	920	877	4
892328 .		N8809601	HRW	5H	67.0	65.4	4.2	1015	916	3
892329 .		D8809001	HWW	2H	65.5	65.5	2.1	955	955	5
892330 HATTON			HRW	3H	67.9	68.2	3.2	910	929	4
892331 .		N8807408	HRW	4H	66.6	66.5	3.9	885	879	4

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	RMKS
892302 .		N8801501	HRW	P-FYELD, Q-MTIME, P-LVOL, Q-BCRGR
892303 .		N8801701	HRW	P-FYELD, Q-FHRD, Q-BCRGR
892304 .		N8801803	HRW	P-FYELD, Q-FHRD, Q-MTIME
892305 .		N8802001	HRW	Q-MTIME
892306 .		N8802302	HRW	P-FYELD, Q-FHRD, Q-MTIME, Q-LVOL
892307 .		N8802303	HRW	Q-FYELD, Q-FHRD, Q-BCRGR
892308 .		N8802902	HRW	P-LVOL, Q-BCRGR
892309 .		N8803101	HRW	P-FYELD, Q-LVOL
892310 .		N8803402	HRW	VP-FYELD
892311 .		N8803403	HRW	P-FYELD
892312 .		N8803405	HRW	P-FYELD
892313 .		N8803408	HRW	
892314 HATTON				
892315 .		N8804801	HRW	Q-FHRD, Q-MTIME
892316 .		N8804802	HRW	P-FYELD, P-FHRD
892317 .		N8805702	HRW	Q-BCRGR
892318 .		D8804701	HRW	Q-MTIME, Q-BCRGR
892319 .		D8806301	HRW	Q-LVOL
892320 HATTON				
892321 .		N8700902	HRW	Q-FYELD, Q-LVOL
892322 .		N8806620	HRW	Q-MTIME, P-LVOL, Q-BCRGR
892323 .		N8807405	HRW	Q-BCRGR
892324 .		N8807806	HRW	Q-FYELD
892325 .		N8807903	HRW	Q-MSCOR, P-LVOL
892326 .		N8808001	HRW	Q-MSCOR, VP-MTIME, VP-LVOL, Q-BCRGR
892327 .		N8809501	HRW	Q-FYELD, Q-LVOL
892328 .		N8809601	HRW	
892329 .		D8809001	HRW	Q-FYELD, Q-FHRD, P-MTIME, Q-BCRGR
892330 HATTON				
892331 .		N8807408	HRW	Q-LVOL

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT	FHRD	MABSC
						1/		1/		3/
892332 .		N8808002	HRW	62.6	70.9	0.40	82.8	13.1	56	65.0
892333 .		N8808301	HRW	62.7	69.8	0.38	82.6	12.7	49	65.7
892334 .		N8809201	HRW	61.8	66.8	0.41	74.7	13.0	37	65.3
892335 .		N8809402	HRW	61.2	70.8	0.41	82.5	13.1	44	65.7
892336 .		N8806701	HRW	63.9	72.9	0.36	88.1	12.9	41	69.7
892337 HATTON		.	HRW	64.7	71.9	0.37	85.7	12.6	48	66.7

NURSCO 84

LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR
892332 .		N8808002	HRW	5H	65.3	65.2	4.7	870	864	4
892333 .		N8808301	HRW	2H	65.6	65.9	2.4	930	949	4
892334 .		N8809201	HRW	4H	65.5	65.5	3.7	895	895	4
892335 .		N8809402	HRW	2H	66.0	65.9	2.4	925	919	3
892336 .		N8806701	HRW	5H	69.8	69.9	6.2	930	936	2
892337 HATTON		.	HRW	3H	66.5	66.9	3.4	865	890	3

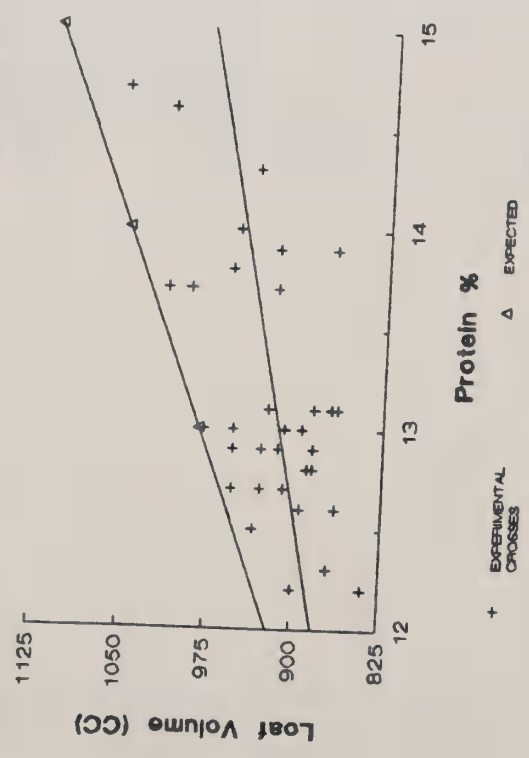
NURSCO 84

LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	RMKS
892332 .				
892333 .		N8808002	HRW	P-LVOL
892334 .		N8808301	HRW	Q-FYELD
892335 .		N8809201	HRW	P-FYELD, P-FHRD, Q-LVOL
892336 .		N8809402	HRW	Q-FHRD
		N8806701	HRW	Q-FHRD
892337 HATTON		.	HRW	

LOAF VOLUME VS PROTEIN



COMMENTS: This nursery averaged 13% flour protein content. Flour yield of several selections in this nursery were questionable to poor. The loaf volume for the check variety (Hatton) was not up to that expected when corrected to 13% flour protein content. One should expect a volume of near 980 cc. Hatton averaged 909 cc. All selections were compared to Hatton and the "Remarks" reflect this based on the performance of Hatton despite it showing less loaf volume than expected. See "Remarks" for other deficiencies. One selection IDNO-N8803408 was footnoted for having promising overall quality characteristics.

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LIND, WA										E. DONALDSON	
LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/	
892338 .		N8910408	HRW	65.2	71.6	0.32	90.5	11.4	84	61.3	
892339 .		N8910407	HRW	64.4	71.3	0.35	88.6	12.5	82	63.2	
892340 .		N8910406	HRW	65.2	71.5	0.32	90.4	11.6	77	60.1	
892341 .		N8910405	HRW	65.6	72.2	0.32	91.1	11.2	78	59.5	
892342 .		N8910404	HRW	65.2	73.4	0.30	93.5	12.3	83	60.6	
892343 .		N8910403	HRW	64.8	71.8	0.31	91.3	10.2	79	63.1	
892344 .		N8910402	HRW	59.9	73.0	0.28	94.1	10.8	83	63.7	
892345 .		N8901401	HRW	59.9	72.1	0.31	91.5	13.4	81	61.5	
892346 .		N8901601	HRW	64.0	74.1	0.37	90.5	12.2	86	58.6	
892347 .		N8901703	HRW	64.8	72.4	0.31	91.8	12.1	78	58.9	
892348 .		N8901702	HRW	63.6	72.5	0.35	89.8	10.5	79	59.4	
892349 .		N8901701	HRW	64.4	73.1	0.29	93.6	12.1	82	60.2	
892350 .		N8901809	HRW	64.4	72.0	0.28	93.0	12.6	78	61.2	
892351 .		N8901808	HRW	64.8	72.2	0.30	92.2	11.1	75	60.3	
892352 .		N8901807	HRW	64.0	71.0	0.33	89.4	11.7	67	62.6	
892353 .		N8901806	HRW	65.1	72.2	0.34	90.1	10.8	74	60.5	
892354 HATTON P-1		.	HRW	66.8	71.4	0.31	90.8	12.4	87	62.3	
892355 .		N8901805	HRW	65.2	72.5	0.35	90.0	12.2	79	60.0	
892356 .		N8901804	HRW	64.4	71.8	0.31	91.2	13.0	84	61.7	
892357 .		N8901803	HRW	64.4	72.5	0.36	89.4	11.4	73	58.1	
892358 .		N8902001	HRW	63.2	69.7	0.32	88.6	13.3	83	58.4	
892359 .		N8902102	HRW	63.2	71.0	0.38	86.9	12.1	71	63.4	
892360 .		6/N8902101	HRW	64.4	74.8	0.37	91.3	11.8	69	62.0	
892361 .		N8902201	HRW	65.2	73.6	0.31	93.2	11.9	90	61.4	
892362 HATTON P-2		.	HRW	66.0	71.5	0.32	90.4	13.0	89	60.9	
892363 .		N8902404	HRW	66.0	70.3	0.30	90.2	12.9	81	63.0	
892364 .		N8902403	HRW	63.6	69.9	0.30	89.8	12.4	86	60.8	
892365 .		N8902402	HRW	63.6	71.7	0.31	91.2	13.1	81	63.4	
892366 .		N8902401	HRW	64.8	71.0	0.31	90.5	12.5	86	60.2	
892367 .		N8902601	HRW	63.6	68.6	0.30	88.5	13.4	79	62.3	

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.
6/ Promising overall quality characteristics.

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LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL
892338 .		N8910408	HRW			4M	60.9	61.5	3.6	875
892339 .		N8910407	HRW			5H	63.9	63.4	4.7	1010
892340 .		N8910406	HRW			3H	59.9	60.3	3.1	865
892341 .		N8910405	HRW			3H				
892342 .		N8910404	HRW			5H	61.1	60.8	3.7	890
892343 .		N8910403	HRW			3H				
892344 .		N8910402	HRW			2H				
892345 .		N8901401	HRW			2H				
892346 .		N8901601	HRW			2H				
892347 .		N8901703	HRW			1H				
892348 .		N8901702	HRW			4M				
892349 .		N8901701	HRW			2H				
892350 .		N8901809	HRW			2H				
892351 .		N8901808	HRW			2H				
892352 .		N8901807	HRW			5H	62.5	62.8	3.5	880
892353 .		N8901806	HRW			2H	59.5	60.7	2.3	830
892354 HATTON P-1			HRW			3H	62.9	62.5	2.8	870
892355 .		N8901805	HRW			3H	60.4	60.2	2.5	870
892356 .		N8901804	HRW			3H	62.9	61.9	2.6	955
892357 .		N8901803	HRW			1H				
892358 .		N8902001	HRW			1H				
892359 .		N8902102	HRW			5H	63.7	63.6	4.7	975
892360 .		N8902101	HRW			5H	62.0	62.2	4.2	970
892361 .		N8902201	HRW			2H	61.5	61.6	2.1	890
892362 HATTON P-2			HRW			2H	62.1	61.1	2.4	910
892363 .		N8902404	HRW			3H	64.1	63.2	3.2	955
892364 .		N8902403	HRW			3H				
892365 .		N8902402	HRW			3H	64.7	63.6	3.1	940
892366 .		N8902401	HRW			1H				
892367 .		N8902601	HRW			2H				

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LABNUM	VARIETY	IDNO	CLASS	LVOLC 4/	BCRGR	RMKS
892338 .		N8910408	HRW	912	3	
892339 .		N8910407	HRW	979	3	
892340 .		N8910406	HRW	890	5	Q-LVOL
892341 .		N8910405	HRW			
892342 .		N8910404	HRW	871	3	P-LVOL
892343 .		N8910403	HRW			P-FPROT
892344 .		N8910402	HRW			
892345 .		N8901401	HRW			
892346 .		N8901601	HRW			
892347 .		N8901703	HRW			
892348 .		N8901702	HRW			
892349 .		N8901701	HRW			P-FPROT
892350 .		N8901809	HRW			
892351 .		N8901808	HRW			
892352 .		N8901807	HRW	899	5	
892353 .		N8901806	HRW	904	6	
892354 HATTON P-1			HRW	845	3	
892355 .		N8901805	HRW	858	6	Q-BCRGR
892356 .		N8901804	HRW	893	4	Q-S-BCRGR
892357 .		N8901803	HRW			
892358 .		N8902001	HRW			P-FYELD
892359 .		N8902102	HRW	969	2	P-MSCOR
892360 .		N8902101	HRW	982	2	
892361 .		N8902201	HRW	896	5	P-MTIME, Q-BCRGR
892362 HATTON P-2			HRW	848	3	
892363 .		N8902404	HRW	899	4	Q-FYELD
892364 .		N8902403	HRW			Q-FYELD
892365 .		N8902402	HRW	872	2	
892366 .		N8902401	HRW			
892367 .		N8902601	HRW			P-FYELD

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892368	HATTON P-3									
892369		N8902701	HRW	66.0	71.6	0.29	92.1	12.8	90	60.5
892370		N8902802	HRW	64.5	72.3	0.36	89.3	11.9	85	60.7
892371		N8902801	HRW	64.3	71.0	0.31	90.5	13.2	90	61.0
892372		N8902904	HRW	64.3	72.3	0.38	88.2	12.4	87	62.3
892373			HRW	63.2	72.3	0.31	91.8	12.6	84	64.4
892374		N8902903	HRW	66.0	72.0	0.32	91.0	11.2	82	61.1
892375		N8902902	HRW	63.7	71.1	0.32	90.0	12.4	81	63.6
892376		N8902901	HRW	64.0	72.5	0.31	92.0	11.8	80	62.5
892377		N8903006	HRW	64.0	72.4	0.31	91.8	12.0	80	60.8
892378		N8903005	HRW	64.1	73.3	0.30	93.3	12.4	84	62.6
892379		N8903004	HRW	63.2	71.2	0.32	90.1	12.3	81	62.9
892380		N8903003	HRW	64.3	72.7	0.32	91.6	13.3	91	60.6
892381		N8903002	HRW	64.8	71.4	0.32	90.3	13.3	90	62.9
892382		N8903001	HRW	64.2	71.0	0.36	87.8	11.9	78	62.1
892383		N8903104	HRW	64.8	70.9	0.30	90.8	13.3	80	63.4
892384		N8903103	HRW	63.2	70.8	0.34	88.7	12.9	79	63.3
892385	HATTON P-4	N8903102	HRW	64.8	70.8	0.31	90.2	12.8	83	63.6
892386			HRW	66.0	71.7	0.31	91.1	12.6	88	62.9
892387		N8903101	HRW	65.9	70.6	0.28	91.5	13.2	84	64.3
892388		6/ N8903201	HRW	64.0	73.1	0.30	93.1	12.5	82	63.2
892389		N8903403	HRW	65.6	70.3	0.27	91.7	12.0	89	61.8
892390		N8903402	HRW	64.4	70.2	0.28	91.1	13.0	94	63.4
892391		N8903401	HRW	64.0	71.2	0.35	88.6	11.8	81	62.6
892392	HATTON P-5	N8903501	HRW	65.1	69.8	0.27	91.2	13.1	84	62.5
892393			HRW	66.0	71.7	0.30	91.7	13.3	87	62.2
892394		N8903701	HRW	63.6	69.6	0.35	86.8	12.3	85	63.5
892395		N8903801	HRW	63.2	71.8	0.32	90.7	13.4	78	60.6
892396		N8903905	HRW	63.6	70.8	0.31	90.2	13.4	90	62.0
892397		N8903904	HRW	64.4	71.3	0.28	92.3	13.8	91	62.2
892398		N8903903	HRW	62.8	68.8	0.30	88.6	13.7	88	62.1

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LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL
892368	HATTON P-3									
892369 .		N8902701	HRW			2H	61.5	60.7	2.3	920
892370 .		N8902802	HRW			4H				
892371 .		N8902801	HRW			3H	62.4	61.2	3.0	875
892372 .		N8902904	HRW			3H	62.9	62.5	3.1	905
			HRW			4H	65.2	64.6	3.5	865
892373 .		N8902903	HRW			3H				
892374 .		N8902902	HRW			3H	64.2	63.8	3.4	850
892375 .		N8902901	HRW			4H	62.5	62.7	3.7	870
892376 .		N8903006	HRW			2H	61.0	61.0	2.5	850
892377 .		N8903005	HRW			5H	63.2	62.8	4.1	885
892378 .		N8903004	HRW			3H				
892379 .		N8903003	HRW			2H	63.4	63.1	3.3	890
892380 .		N8903002	HRW			3H	64.4	63.1	3.2	970
892381 .		N8903001	HRW			2H	62.2	62.3	2.4	880
892382 .		N8903104	HRW			3H	64.9	63.6	2.8	975
892383 .		N8903103	HRW			4H				
892384 .		N8903102	HRW			4H	64.4	63.5	3.3	945
892385	HATTON P-4		HRW			2H	64.6	63.8	3.1	970
892386 .		N8903101	HRW			3H	63.7	63.1	2.6	950
892387 .		N8903201	HRW			2H	65.7	64.5	2.4	990
			HRW				63.9	63.4	2.4	965
892388 .		N8903403	HRW			4M				
892389 .		N8903402	HRW			3H	62.0	62.0	2.6	835
892390 .		N8903401	HRW			3H	64.6	63.6	3.3	910
892391 .		N8903501	HRW			2H				
892392	HATTON P-5		HRW			3H	63.7	62.4	2.6	940
892393 .		N8903701	HRW			5H				
892394 .		N8903801	HRW			3M				
892395 .		N8903905	HRW			3H	63.6	62.2	2.4	955
892396 .		N8903904	HRW			2H	64.2	62.4	1.9	1000
892397 .		N8903903	HRW			2H				

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LABNUM	VARIETY	IDNO	CLASS	LVOL 4/	BCRGR	RMKS
892368	HATTON P-3					
892369	.	N8902701	HRW	870	3	
892370	.	N8902802	HRW			
892371	.	N8902801	HRW	801	5	Q-FYELD, Q-BABS, P-LVOL, Q-BCRGR
892372	.	N8902904	HRW	880	2	Q-MSCOR, P-LVOL
				828	4	P-LVOL, Q-S-BCRGR
892373	.	N8902903	HRW			
892374	.	N8902902	HRW	825	4	P-LVOL, Q-S-BCRGR
892375	.	N8902901	HRW	882	5	P-LVOL, Q-BCRGR
892376	.	N8903006	HRW	850	5	Q-BABS, P-LVOL, Q-BCRGR
892377	.	N8903005	HRW	860	3	P-LVOL
892378	.	N8903004	HRW	871	2	P-LVOL
892379	.	N8903003	HRW			
892380	.	N8903002	HRW	889	4	Q-LVOL
892381	.	N8903001	HRW	886	4	Q-MSCOR, Q-MTIME, Q-LVOL, Q-S-BCRGR
892382	.	N8903104	HRW	894	3	Q-LVOL
892383	.	N8903103	HRW	889	2	Q-MSCOR, Q-LVOL
892384	.	N8903102	HRW	920	2	
892385	HATTON P-4					
892386	.	N8903101	HRW	913	3	
892387	.	N8903201	HRW	916	4	Q-S-BCRGR
				934	5	
892388	.	N8903403	HRW	835	7	P-LVOL, P-Q-BCRGR
892389	.	N8903402	HRW	848	4	Q-LVOL, Q-S-BCRGR
892390	.	N8903401	HRW			Q-MSCOR
892391	.	N8903501	HRW			Q-FYELD
892392	HATTON P-5					
				859	2	
892393	.	N8903701	HRW			
892394	.	N8903801	HRW			P-FYELD
892395	.	N8903905	HRW			
892396	.	N8903904	HRW	868	5	Q-FYELD, P-LVOL, Q-BCRGR
892397	.	N8903903	HRW	888	4	P-MTIME, Q-LVOL, Q-S-BCRGR
						P-FYELD

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LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH	MSCOR	FPROT 1/	FHRD	MABSC 3/
892398										
892399	HATTON P-7	N8904001	HRW	63.6	71.9	0.30	91.8	13.2	83	61.5
892400			HRW	66.0	71.8	0.28	92.8	12.5	89	63.3
892401		N8904101	HRW	62.8	69.8	0.32	88.6	11.8	80	61.4
892402		N8904201	HRW	64.8	70.5	0.33	88.8	12.2	83	61.8
892403		N8904301	HRW	63.6	68.3	0.30	88.1	12.8	85	60.9
892404		N8904403	HRW	65.6	72.8	0.35	90.2	11.9	80	61.6
892405		N8904402	HRW	64.8	70.7	0.34	88.5	11.0	76	60.5
892406		N8904401	HRW	64.4	68.9	0.32	87.7	11.2	86	59.5
892407		N8904501	HRW	62.8	70.7	0.32	89.6	11.7	77	61.2
892408		N8904601	HRW	64.0	69.3	0.30	89.2	12.0	83	60.4
892409	HATTON P-8									
892410		N8904703	HRW	66.0	71.3	0.32	90.2	12.2	86	63.3
892411		N8904702	HRW	63.1	72.0	0.31	91.5	12.7	80	62.6
892412		N8904801	HRW	64.0	68.0	0.38	83.7	12.8	80	61.3
892413			HRW	63.6	67.2	0.33	85.4	14.4	74	58.9
892414			HRW	59.9	71.1	0.32	90.0	12.5	85	62.0
892415		N8905101	HRW	63.6	71.4	0.37	87.7	12.4	85	62.1
892416		N8905203	HRW	63.9	71.3	0.30	91.3	14.3	88	61.9
892417		N8905202	HRW	64.0	69.1	0.36	85.8	11.6	83	61.8
892418		N8905201	HRW	64.0	70.5	0.33	88.8	13.2	80	62.3
892419		N8905402	HRW	65.2	69.0	0.33	87.3	11.9	86	58.6
892420		N8905401	HRW	64.4	68.2	0.35	85.4	12.0	81	60.4
892421		N8905502	HRW	64.5	68.8	0.34	86.6	12.9	88	63.0
892422		N8905501	HRW	64.0	67.8	0.34	85.5	13.6	88	66.8
892423		N8905604	HRW	64.8	70.6	0.35	87.9	11.7	83	63.5
892424		N8905706	HRW	63.9	69.8	0.31	89.2	12.6	70	60.4
892425		N8905705	HRW	64.0	69.9	0.36	86.7	12.5	77	61.0
892426		N8905805	HRW	64.0	70.1	0.33	88.4	13.6	89	61.9
892427		N8905804	HRW	64.4	71.6	0.33	90.0	11.1	79	61.4
892428		N8905803	HRW	62.8	70.5	0.35	87.8	12.9	79	62.9
892429		N8905802	HRW	64.0	69.2	0.34	87.0	12.5	70	60.5

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LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL			
892398 .	HATTON P-7	N8904001	HRW			3M							
892400 .		N8904101	HRW			3H	64.0	63.5	2.8	925			
892401 .		N8904201	HRW			3H							
892402 .		N8904301	HRW			2H							
892403 .		N8904403	HRW			2H							
892404 .	HATTON P-8	N8904402	HRW			1H	61.7	61.8	1.9	900			
892405 .		N8904401	HRW			3M							
892406 .		N8904501	HRW			3H							
892407 .		N8904601	HRW			2H	61.1	61.4	2.4	925			
892408		N8904601	HRW			3H							
892409 .	HATTON P-9	N8904703	HRW			2H	63.7	63.5	2.8	940			
892410 .		N8904702	HRW			3H	63.5	62.8	2.9	980			
892411 .		N8904801	HRW			1H							
892412		N8904801	HRW			1H							
892413 .		N8905101	HRW			2H	62.7	62.2	2.3	915			
892414 .		N8905203	HRW			3H	62.7	62.3	2.6	935			
892415 .		N8905202	HRW			2H							
892416 .		N8905201	HRW			3H							
892417 .		N8905402	HRW			3H	63.7	62.5	3.1	1020			
892418 .		N8905401	HRW			1H							
892419 .		N8905502	HRW			1H							
892420 .		N8905501	HRW			2H							
892421 .		N8905604	HRW			3H							
892422 .		N8905706	HRW			4H	63.4	63.7	3.9	900			
892423 .		N8905705	HRW			1H							
892424 .		N8905805	HRW			2H	62.7	62.2	2.1	960			
892425 .		N8905804	HRW			1H	63.7	62.1	1.9	930			
892426 .		N8905803	HRW			3M							
892427 .		N8905802	HRW			2H	64.0	63.1	2.4	915			

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LABNUM	VARIETY	IDNO	CLASS	LVOL 4/	BCRGR	RMKS
892398 .						
892399 HATTON P-7		N8904001	HRW			
892400 .		N8904101	HRW	894	4	Q-FYELD
892401 .		N8904201	HRW			Q-FYELD
892402 .		N8904301	HRW			P-FYELD, Q-MSCOR
892403 .		N8904403	HRW			
892404 .		N8904402	HRW	906	5	P-MTIME, Q-LVOL, Q-BCRGR
892405 .		N8904401	HRW			Q-FYELD
892406 .		N8904501	HRW			P-FYELD
892407 .		N8904601	HRW	944	5	Q-MTIME, Q-BCRGR
892408 HATTON P-8						Q-FYELD
892409 .		N8904703	HRW	928	4	
892410 .		N8904702	HRW	937	5	Q-S-BCRGR
892411 .		N8904801	HRW			P-FYELD, P-MSCOR
892412 HATTON P-9						P-FYELD, P-MSCOR
892413 .		N8905101	HRW	884	4	
892414 .		N8905203	HRW	910	4	Q-MSCOR, Q-LVOL, Q-S-BCRGR
892415 .		N8905202	HRW			
892416 .		N8905201	HRW			P-FYELD
892417 .		N8905402	HRW	946	2	Q-FYELD
892418 .		N8905401	HRW			P-FYELD
892419 .		N8905502	HRW			P-FYELD
892420 .		N8905501	HRW			P-FYELD
892421 .		N8905604	HRW			Q-FYELD, Q-S-BCRGR
892422 .		N8905706	HRW	919	4	Q-FYELD
892423 .		N8905705	HRW			
892424 .		N8905805	HRW	929	4	Q-FYELD, Q-MSCOR, P-MTIME, Q-S-BCRGR
892425 .		N8905804	HRW	831	5	Q-FYELD, Q-MSCOR, P-MTIME, P-LVOL, Q-BCRGR
892426 .		N8905803	HRW			
892427 .		N8905802	HRW	859	4	Q-FYELD, Q-MTIME, P-LVOL, Q-S-BCRGR
						P-FYELD, Q-MSCOR

NURSCO 85

LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYIELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892428 .		N8905801	HRW	64.4	70.7	0.35	88.0	12.4	81	61.8
892429 .		N8905901	HRW	65.6	70.1	0.29	90.5	14.3	77	63.6
892430 HATTON P-10			HRW	66.8	72.4	0.32	91.4	12.5	88	62.7
892431 .		N8906002	HRW	64.4	72.7	0.32	91.7	14.0	94	60.5
892432 .		N8906202	HRW	63.6	69.2	0.32	88.0	13.2	88	62.3
892433 .										
892434 .		N8906201	HRW	64.4	70.3	0.32	89.2	13.1	80	62.9
892435 HATTON P-11		N8906303	HRW	64.8	73.8	0.29	94.4	12.6	86	60.3
892436 .			HRW	66.0	71.6	0.31	91.0	12.5	86	64.2
892437 .		N8906403	HRW	64.8	73.5	0.29	94.0	12.6	91	62.1
		N8906402	HRW	64.0	71.7	0.29	92.2	12.5	86	64.2
892438 .										
892439 .		N8906501	HRW	64.8	71.6	0.32	90.6	12.4	89	62.3
892440 .		N8906601	HRW	63.3	71.3	0.37	87.6	11.7	84	63.0
892441 .		N8906701	HRW	66.0	71.5	0.31	90.9	11.8	73	63.4
892442 .		N8906806	HRW	64.0	72.2	0.30	92.2	12.1	81	64.4
		N8906805	HRW	65.6	73.4	0.33	91.7	12.1	84	64.1
892443 .										
892444 .		N8906804	HRW	64.0	71.8	0.35	89.3	11.4	76	63.3
892445 .		N8906803	HRW	65.2	73.0	0.35	90.5	11.6	88	63.4
892446 .		N8906802	HRW	65.2	72.1	0.34	90.0	11.5	80	63.9
892447 HATTON P-12		N8906801	HRW	59.9	74.1	0.36	91.1	12.3	87	64.0
			HRW	66.0	72.4	0.32	91.3	12.4	87	63.8
892448 .										
892449 .		N8907004	HRW	62.0	72.5	0.35	90.0	11.8	81	63.3
892450 .		N8907003	HRW	62.8	73.1	0.33	91.6	12.4	87	62.4
892451 .		N8907202	HRW	62.0	72.0	0.37	88.4	12.5	85	63.2
892452 .		N8907201	HRW	61.6	72.2	0.37	88.6	11.8	78	63.4
		N8907301	HRW	64.4	71.0	0.34	88.9	12.2	86	63.0
892453 .										
892454 .		N8907402	HRW	65.2	72.2	0.33	90.7	12.9	78	63.3
892455 .		N8907503	HRW	64.0	71.4	0.35	88.8	12.3	80	63.8
892456 .		N8907502	HRW	64.6	72.5	0.35	89.9	12.6	84	65.4
892457 .		N8907501	HRW	64.4	71.8	0.36	88.6	12.3	90	65.2
		N8907603	HRW	64.7	72.5	0.32	91.5	13.5	85	65.0

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL
892428 .		N8905801	HRW			2H	62.4	62.0	2.2	970
892429 .		N8905901	HRW			2H	66.1	63.8	2.1	1015
892430 HATTON P-10			HRW			2H	63.4	62.9	2.3	955
892431 .		N8906002	HRW			1H				
892432 .		N8906202	HRW			2H				
892433 .										
892434 .		N8906201	HRW			3H	64.2	63.1	3.7	1105
892435 HATTON P-11		N8906303	HRW			1H				
892436 .			HRW			3H	64.9	64.4	3.0	975
892437 .		N8906403	HRW			3H	62.9	62.3	3.4	945
		N8906402	HRW			3H	64.9	64.4	3.2	905
892438 .										
892439 .		N8906501	HRW			2H	62.9	62.5	2.1	925
892440 .		N8906601	HRW			3H				
892441 .		N8906701	HRW			4M	63.4	63.6	3.3	940
892442 .		N8906806	HRW			3M	64.7	64.6	2.8	920
		N8906805	HRW			2H				
892443 .										
892444 .		N8906804	HRW			3H	62.9	63.5	3.2	865
892445 .		N8906803	HRW			2H	63.2	63.6	2.5	835
892446 .		N8906802	HRW			5H	63.6	64.1	4.2	860
892447 HATTON P-12		N8906801	HRW			3H	64.5	64.2	2.6	930
			HRW			2H	64.4	64.0	1.6	920
892448 .										
892449 .		N8907004	HRW			2H	63.3	63.5	2.3	870
892450 .		N8907003	HRW			2H	63.0	62.6	2.4	890
892451 .		N8907202	HRW			2H				
892452 .		N8907201	HRW			3H	63.4	63.6	3.3	875
		N8907301	HRW			3H				
892453 .										
892454 .		N8907402	HRW			4H	64.4	63.5	3.6	945
892455 .		N8907503	HRW			5H	64.3	64.0	3.4	925
892456 .		N8907502	HRW			5H	66.2	65.6	4.4	915
892457 .		N8907501	HRW			5H				
		N8907603	HRW			4H	66.7	65.2	3.9	1010

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	LVOLC 4/	BCRGR	RMKS
892428 .		N8905801	HRW	945	4	Q-FYELD, Q-MTIME, Q-S-BCRGR
892429 .		N8905901	HRW	872	3	Q-FYELD, Q-MTIME, P-LVOL
892430 HATTON P-10		.	HRW	924	3	
892431 .		N8906002	HRW			
892432 .		N8906202	HRW			P-FYELD, Q-MSCOR
892433 .						
892434 .		N8906201	HRW	1037	4	Q-FYELD, Q-S-BCRGR
892435 HATTON P-11		N8906303	HRW			
892436 .		.	HRW	944	3	
892437 .		N8906403	HRW	908	4	Q-S-BCRGR
		N8906402	HRW	874	2	P-LVOL
892438 .						
892439 .		N8906501	HRW	900	5	Q-MTIME, Q-BCRGR
892440 .		N8906601	HRW			Q-FYELD, Q-MSCOR
892441 .		N8906701	HRW	952	4	Q-S-BCRGR
892442 .		N8906806	HRW	914	6	Q-BCRGR
		N8906805	HRW			
892443 .						
892444 .		N8906804	HRW	902	5	Q-MSCOR, Q-S-BCRGR
892445 .		N8906803	HRW	860	6	P-LVOL, Q-BCRGR
892446 .		N8906802	HRW	891	4	Q-LVOL, Q-S-BCRGR
892447 HATTON P-12		N8906801	HRW	911	5	Q-BCRGR
		.	HRW	895	3	
892448 .						
892449 .		N8907004	HRW	882	6	Q-FYELD, Q-MTIME, Q-BCRGR
892450 .		N8907003	HRW	865	5	Q-LVOL, Q-BCRGR
892451 .		N8907202	HRW			P-FYELD, Q-MSCOR
892452 .		N8907201	HRW	887	6	Q-FYELD, Q-MSCOR, Q-BCRGR
		N8907301	HRW			P-FYELD, Q-MSCOR
892453 .						
892454 .		N8907402	HRW	889	4	Q-FYELD
892455 .		N8907503	HRW	906	3	P-FYELD
892456 .		N8907502	HRW	878	4	Q-FYELD, Q-MSCOR
892457 .		N8907501	HRW			P-FYELD
		N8907603	HRW	917	4	Q-FYELD

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892458 .		N8907602	HRW	63.9	69.7	0.35	87.0	13.4	83	66.1
892459 .		N8907701	HRW	63.6	71.0	0.40	85.8	11.2	78	62.7
892460 HATTON P-13			HRW	65.2	74.8	0.34	92.9	12.2	86	64.1
892461 .		N8907804	HRW	63.9	73.6	0.35	91.0	12.0	88	65.5
892462 .		N8907803	HRW	65.0	71.5	0.34	89.3	12.0	81	63.8
892463 .										
892464 .		N8907802	HRW	62.4	70.3	0.33	88.7	11.5	76	63.8
892465 .		N8907801	HRW	65.6	69.9	0.33	88.2	12.0	84	62.5
892466 .		N8907901	HRW	62.0	71.7	0.31	91.1	12.3	85	63.4
892467 .		N8908001	HRW	62.5	71.0	0.32	89.8	12.2	81	63.6
		N8908101	HRW	62.7	68.6	0.30	88.6	12.2	87	62.3
892468 HATTON P-14										
892469 .			HRW	64.8	71.6	0.33	89.7	12.5	85	60.6
892470 HATTON P-15		N8908901	HRW	62.8	72.3	0.32	91.4	11.9	71	62.2
892471 .			HRW	64.0	71.7	0.35	89.1	12.7	88	63.8
892472 .		N8909001	HRW	61.6	72.1	0.34	90.0	13.6	85	65.4
		N8909103	HRW	60.0	69.4	0.34	87.2	13.1	66	65.8
892473 .										
892474 .		N8909101	HRW	60.8	69.5	0.34	87.3	13.2	67	65.8
892475 .		N8909201	HRW	59.6	71.3	0.35	88.6	13.6	81	66.4
892476 .		N8909301	HRW	58.4	67.3	0.38	83.0	12.9	58	64.3
892477 .		N8909501	HRW	60.0	68.6	0.30	88.4	13.2	79	66.2
		N8909602	HRW	62.0	73.0	0.35	90.4	13.2	86	66.2
892478 .										
892479 .		N8909701	HRW	61.6	69.5	0.34	87.3	13.3	69	65.6
892480 .		N8909801	HRW	61.2	71.6	0.32	90.5	12.5	75	64.2
892481 HATTON P-16		N8909901	HRW	60.4	71.1	0.33	89.5	14.0	91	64.2
892482 .			HRW	62.4	70.9	0.33	89.3	13.1	80	66.4
		N8910101	HRW	62.0	69.1	0.33	87.4	13.2	76	65.6
892483 .										
892484 .		N8910203	HRW	62.0	71.0	0.31	90.4	13.4	85	65.1
892485 .		N8910202	HRW	62.4	70.7	0.28	91.6	13.5	89	64.7
892486 .		N8910201	HRW	62.8	69.8	0.31	89.2	13.3	86	63.2
892487 .		N8900901	HRW	62.0	70.9	0.37	87.2	13.3	81	64.1
		N8901101	HRW	61.2	70.8	0.32	89.7	13.9	80	63.0

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	COOI	COOIC	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL
892458 .		N8907602	HRW			5H	67.7	66.3	4.2	990
892459 .		N8907701	HRW			3H	62.1	62.9	3.0	885
892460 HATTON P-13			HRW			2H	64.5	64.3	2.5	890
892461 .		N8907804	HRW			4H	65.7	65.7	4.0	895
892462 .		N8907803	HRW			2H				
892463 .		N8907802	HRW			6M				
892464 .		N8907801	HRW			2H				
892465 .		N8907901	HRW			3H	63.9	63.6	3.5	950
892466 .		N8908001	HRW			3H	64.0	63.8	3.2	925
892467 .		N8908101	HRW			3H				
892468 HATTON P-14										
892469 .		N8908901	HRW			2H	61.3	60.8	2.2	870
892470 HATTON P-15			HRW			2H	62.3	62.4	2.8	875
892471 .		N8909001	HRW			2H	64.7	64.0	2.4	915
892472 .		N8909103	HRW			2H	67.2	65.6	3.0	905
892473 .		N8909101	HRW			5H	67.1	66.0	4.9	1000
892474 .		N8909201	HRW			5H	67.2	66.0	5.0	1000
892475 .		N8909301	HRW			5H	68.2	66.6	4.8	1030
892476 .		N8909501	HRW			3H				
892477 .		N8909602	HRW			5H	67.6	66.4	4.6	920
892478 .		N8909701	HRW			5H				
892479 .		N8909801	HRW			5H	67.1	65.8	4.2	1010
892480 .		N8909901	HRW			2H	64.9	64.4	3.0	915
892481 HATTON P-16			HRW			3H	66.4	64.4	3.1	935
892482 .		N8910101	HRW			4H	65.7	64.6	3.4	895
892483 .		N8910203	HRW			4H				
892484 .		N8910202	HRW			2H				
892485 .		N8910201	HRW			2H				
892486 .		N8900901	HRW			3H	65.6	64.3	2.5	1025
892487 .		N8901101	HRW			4H	65.1	63.2	3.2	1005

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	LVOLC 4/	BCRGR	RMKS
892458 .		N8907602	HRW	903	4	P-FYELD
892459 .		N8907701	HRW	935	5	P-FYELD
892460 HATTON P-13						
892461 .			HRW	878	5	
892462 .		N8907804	HRW	895	4	
		N8907803	HRW			
892463 .						
892464 .		N8907802	HRW			Q-FYELD
892465 .		N8907801	HRW			Q-FYELD
892466 .		N8907901	HRW			
892467 .		N8908001	HRW	931	4	
		N8908101	HRW	913	5	Q-S-BCRGR P-FYELD
892468 HATTON P-14						
892469 .			HRW	839	4	
892470 HATTON P-15		N8908901	HRW	881	4	Q-S-BCRGR
892471 .			HRW	872	3	
892472 .		N8909001	HRW	806	5	Q-LVOL, Q-BCRGR
		N8909103	HRW	932	3	Q-FYELD
892473 .						
892474 .		N8909101	HRW	926	3	Q-FYELD
892475 .		N8909201	HRW	931	3	
892476 .		N8909301	HRW			P-FYELD
892477 .		N8909501	HRW			P-FYELD
		N8909602	HRW	846	3	
892478 .						
892479 .		N8909701	HRW	929	3	P-FYELD
892480 .		N8909801	HRW	884	5	Q-S-BCRGR
892481 HATTON P-16		N8909901	HRW	811	4	P-LVOL, Q-S-BCRGR
892482 .			HRW	827	4	
		N8910101	HRW			P-FYELD
892483 .						
892484 .		N8910203	HRW			
892485 .		N8910202	HRW			
892486 .		N8910201	HRW			
892487 .		N8900901	HRW			
		N8901101	HRW	944	3	Q-FYELD
				887	2	Q-MSCOR

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/
892488 .		N8901201	HRW	62.8	71.6	0.31	91.0	13.2	75	63.5
892489 .		D8901802	HRW	62.4	69.0	0.35	86.2	12.4	68	59.3
892490 .		D8901801	HRW	62.4	68.9	0.34	86.7	12.1	68	60.3
892491 HATTON P-17		.	HRW	64.0	71.3	0.31	90.7	12.8	84	64.9
892492 .		N8903902	HRW	62.8	69.8	0.28	90.7	12.3	80	64.1
892493 .		N8903901	HRW	60.4	70.3	0.31	89.7	13.1	91	64.6
892494 .		N8904901	HRW	62.0	68.5	0.34	86.2	13.2	68	65.3
892495 .		D8905703	HRW	62.0	72.8	0.27	94.4	12.7	75	63.2
892496 .		D8905702	HRW	62.0	72.4	0.28	93.4	12.9	71	63.0
892497 .		D8905701	HRW	61.2	72.3	0.29	92.8	13.2	69	62.1
892498 HATTON P-18		.	HRW	63.6	70.7	0.33	89.1	12.7	82	58.7
892499 .		D8906301	HRW	60.0	72.1	0.36	89.0	12.0	75	62.3
892500 .		D8907101	HRW	61.2	73.6	0.33	92.1	13.2	79	64.6
892501 .		D8907401	HRW	60.0	68.3	0.34	86.0	12.9	74	63.5
892502 .		D8907601	HRW	61.6	72.0	0.34	89.8	14.1	91	63.3
892503 HATTON P-19		.	HRW	63.6	72.7	0.33	91.1	12.9	83	63.8
892504 .		D8909401	HRW	61.6	69.2	0.36	85.9	12.8	74	65.0
892505 .		D8909601	HRW	62.0	72.5	0.37	88.8	12.4	77	63.8
892506 .		D8900401	HRW	60.4	73.5	0.35	90.9	13.4	70	65.6
892507 .		D8900704	HRW	62.0	71.8	0.37	88.1	12.5	82	63.7
892508 .		D8900703	HRW	62.0	70.8	0.33	89.1	12.4	87	66.0
892509 .		D8901301	HRW	60.8	70.9	0.33	89.2	12.7	92	61.1
892510 .		D8910005	HRW	60.0	65.4	0.36	82.0	12.7	73	65.3
892511 HATTON P-20		.	HRW	63.6	72.2	0.35	89.5	12.7	82	67.1
892512 .		D8910004	HRW	60.8	65.8	0.34	83.4	12.3	74	64.1
892513 .		D8910003	HRW	60.4	66.4	0.32	85.1	12.2	71	64.1
892514 .		D8910002	HRW	59.6	64.6	0.33	82.7	12.4	70	64.1
892515 .		D8910001	HRW	60.4	65.3	0.32	83.9	12.8	73	64.2
892516 .		D8900203	CLUB	60.8	69.5	0.32	88.9	11.6	48	48.8
892517 .		D8900202	CLUB	62.0	65.7	0.34	82.8	12.2	43	53.2

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	CODI	CODIC	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL
892488 .		N8901201	HRW			3H				
892489 .		D8901802	HRW			2M	64.4	63.2	3.4	905
892490 .		D8901801	HRW			1H				
892491 HATTON P-17			HRW			4H	65.9	65.1	3.3	935
892492 .		N8903902	HRW			2H				
892493 .										
892494 .		N8903901	HRW			3H				
892495 .		N8904901	HRW			5H				
892496 .		D8905703	HRW			4M	64.1	63.4	3.0	925
892497 .		D8905702	HRW			3M	62.1	61.2	1.4	945
		D8905701	HRW			4H	63.5	62.3	3.6	955
892498 HATTON P-18										
892499 .			HRW			4H	59.6	58.9	3.0	905
892500 .		D8906301	HRW			4H	62.5	62.5	4.1	900
892501 .		D8907101	HRW			3H	66.0	64.8	3.7	1010
892502 .		D8907401	HRW			2H				
		D8907601	HRW			2H				
892503 HATTON P-19										
892504 .			HRW			4H	64.9	64.0	3.3	920
892505 .		D8909401	HRW			5H				
892506 .		D8909601	HRW			2H	64.4	64.0	2.6	940
892507 .		D8900401	HRW			3H	67.2	65.8	3.5	910
		D8900704	HRW			2H	64.4	63.9	2.1	890
892508 .										
892509 .		D8900703	HRW			2H				
892510 .		D8901301	HRW			3M	60.5	59.8	2.3	910
892511 HATTON P-20		D8910005	HRW			3H				
892512 .			HRW			3H	67.0	66.3	3.4	880
		D8910004	HRW			2H				
892513 .										
892514 .		D8910003	HRW			2H				
892515 .		D8910002	HRW			2H				
892516 .		D8910001	HRW			2H				
892517 .		D8900203	CLUB	8.91	8.88	1M				
		D8900202	CLUB	8.80	8.81	1M				

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LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	LVOLC 4/	BCRGR	RMKS
892488 .		N8901201	HRW	831	3	Q-BABS, P-LVOL
892489 .		D8901802	HRW			P-FYELD
892490 .		D8901801	HRW			P-FYELD
892491 HATTON P-17		.	HRW	885	2	
892492 .		N8903902	HRW			
892493 .		N8903901	HRW			
892494 .		N8904901	HRW			
892495 .		D8905703	HRW	882	2	P-FYELD
892496 .		D8905702	HRW	889	5	P-MTIME, Q-BCRGR
892497 .		D8905701	HRW	881	5	Q-BCRGR
892498 HATTON P-18		.	HRW	862	4	
892499 .		D8906301	HRW	900	4	
892500 .		D8907101	HRW	936	3	
892501 .		D8907401	HRW			P-FYELD
892502 .		D8907601	HRW			
892503 HATTON P-19		.	HRW	864	4	
892504 .		D8909401	HRW			P-FYELD
892505 .		D8909601	HRW	915	6	Q-BCRGR
892506 .		D8900401	HRW	823	5	P-LVOL, Q-BCRGR
892507 .		D8900704	HRW	859	6	P-MTIME, Q-BCRGR
892508 .		D8900703	HRW			
892509 .		D8901301	HRW	867	5	P-BABS, Q-MTIME
892510 .		D8910005	HRW			
892511 HATTON P-20		.	HRW	837	5	
892512 .		D8910004	HRW			VP-FYELD
892513 .		D8910003	HRW			P-FYELD
892514 .		D8910002	HRW			P-FYELD
892515 .		D8910001	HRW			P-FYELD
892516 .		D8900203	CLUB			Q-COD1
892517 .		D8900202	CLUB			P-FYELD, P-COD1

NURSCO 85

LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH	MSCOR	FPROT 1/	FHRD	MABSC 3/
892518 .		D8900201	CLUB	60.0	67.7	0.38	82.9	12.6	43	51.7
892519 .		D8900305	CLUB	59.2	69.4	0.38	85.0	12.0	41	51.3
892520 .		D8900304	CLUB	60.0	69.1	0.37	85.3	12.1	46	53.0
892521 .		D8900303	CLUB	58.8	68.4	0.37	84.5	12.5	42	53.5
892522 .		D8900302	CLUB	59.2	66.9	0.38	82.0	12.2	40	53.5
892523 .		D8900301	CLUB	60.8	70.5	0.38	86.5	12.6	39	51.0
892524 .		D8905001	CLUB	61.6	74.4	0.36	92.7	11.8	39	57.1
892525 .		D8905603	CLUB	62.0	67.3	0.35	84.3	11.4	33	56.7
892526 .		D8905602	CLUB	61.6	66.5	0.36	82.7	11.6	34	57.3
892527 .		D8905601	CLUB	62.0	67.4	0.34	85.1	11.4	36	57.1
892528 MORO		.	CLUB	60.0	69.9	0.40	84.5	11.5	41	54.6
892529 TRES		.	CLUB	60.0	70.3	0.41	84.4	11.5	40	54.5

NURSCO 85

LIND, WA				E. DONALDSON						
LABNUM	VARIETY	IDNO	CLASS	COOI	CODIC 4/	MTYPE	BABS 1/	BABSC	MTIME	LVOL
892518 .		D8900201	CLUB	8.64	8.68	1M				
892519 .		D8900305	CLUB	9.04	9.04	1M				
892520 .		D8900304	CLUB	9.01	9.02	1M				
892521 .		D8900303	CLUB	9.18	9.21	1M				
892522 .		D8900302	CLUB	9.10	9.11	1M				
892523 .										
892524 .		D8900301	CLUB	9.10	9.14	1M				
892525 .		D8905001	CLUB	8.64	8.62	4M				
892526 .		D8905603	CLUB	8.80	8.76	4M				
892527 .		D8905602	CLUB	8.94	8.91	4M				
		D8905601	CLUB	8.86	8.82	4M				
892528 MORO		.	CLUB	9.41	9.38	2M				
892529 TRES		.	CLUB	9.02	8.99	2M				

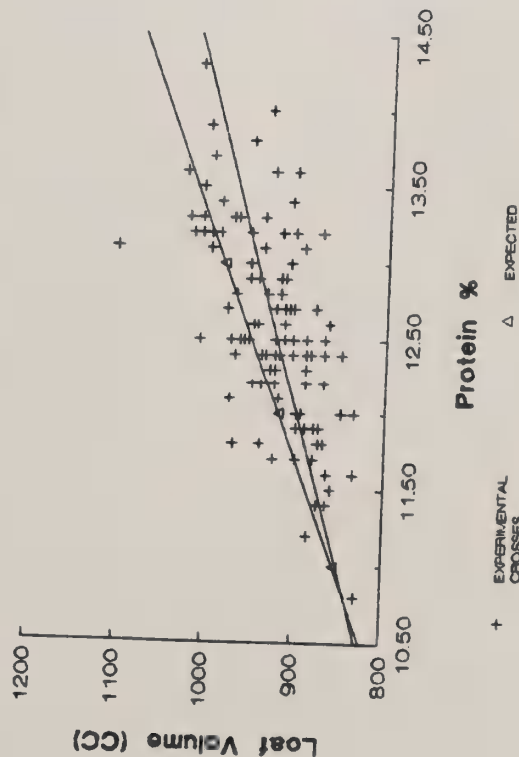
MURSCO 85

LIND, WA

E. DONALDSON

LABNUM	VARIETY	IDNO	CLASS	LVOLC 4/	BCRGR	RMKS
892518 .		D8900201	CLUB			P-FYELD, P-COD1
892519 .		D8900305	CLUB			
892520 .		D8900304	CLUB			
892521 .		D8900303	CLUB			Q-FYELD
892522 .		D8900302	CLUB			P-FYELD
892523 .						
892524 .		D8900301	CLUB			P-COD1
892525 .		D8905001	CLUB			P-FYELD, P-COD1
892526 .		D8905603	CLUB			P-FYELD, Q-COD1
892527 .		D8905602	CLUB			P-FYELD, P-COD1
		D8905601	CLUB			
892528 MORO		.	CLUB			
892529 TRES		.	CLUB			

LOAF VOLUME VS PROTEIN



COMMENTS: This nursery averaged 12% flour protein content. Comparisons were made between the check Hatton and the selections within each of their respective plots for the hard red and white winter wheats. Some selections had poor to questionable flour yields and/or milling score. Several selections had loaf volume which was not up to that expected for their flour protein level. At 12% flour protein content, 920 cc would be acceptable. The check variety Hatton was often lower in volume than would be expected. Comparisons between the hard wheat selections and Hatton kept this in mind. Some of the club selections had questionable to poor flour yield and/or questionable to poor cookie diameter. Approximately one-half of this nursery was not bread baked due to selections having short mixing time, weak mixing properties, low protein, or other deficiencies. See "Remarks" and "Footnotes".

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ID, WA

LABNUM	VARIETY	IDNO	CLASS	FASH 1/	FYIELD	WPROT	FPROT 1/	MABS	MABSC 3/	FABS
892530 DAWS										
892531 .		CI017419	SWW	0.31	73.1	10.9	8.8	53.5	55.7	54.4
892532 PENEHAWA		WA7526	CLUB	0.33	75.8	11.0	9.1	50.2	52.1	54.4
892533 .		WA6920	SWS	0.41	73.4		9.3	54.3	56.0	54.0
892534 WESTON		WA7497	SWS	0.37	75.1		9.8	54.0	55.2	55.5
892535 SURVIVOR		CI017727	HRW	0.40	73.2	14.0	12.8	66.6	64.8	69.0
892536 PONDERA		PI509503	HRW	0.38	75.6	13.3	12.1	64.3	63.2	65.5
892537 .		ID341	HRS	0.41	73.0	13.6	12.9	64.6	62.7	69.1
892538 SPILLMAN		WA7075	HRS	0.46	73.3	14.8	14.0	67.3	64.3	67.6
892539 COPPER		PI502644	HRS	0.39	73.2	12.5	11.7	64.4	63.7	66.4
892540 .				0.35	73.0	12.7	11.7	65.7	65.0	66.5
		WA7668	HRS	0.40	74.7	11.7	10.5	62.3	62.8	63.8

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 11% protein.

4/ Observed values corrected to 11% protein.

5/ Particularly promising overall quality characteristics.
6/ Promising overall quality characteristics.

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ID, WA

LABNUM	VARIETY	IDNO	CLASS	FABSC 3/	FPEAK	FSTAB	VISCC 4/	BABS 1/	BABSC 3/	MTIME
892530 DAWS										
892531 .		CI017419	SMW	56.6	2.0	3.1	245			
892532 PENEHAWA		WA7526	CLUB	56.3	1.4	1.3	106			
892533 .		WA6920	SWS	55.7	3.4	3.5	122			
892534 WESTON		WA7497	SWS	56.7	4.0	5.9	178			
		CI017727	HRW	67.2	5.5	5.5	289	66.8	65.0	1.8
892535 SURVIVOR										
892536 PONDERA		PI509503	HRW	64.4	7.5	8.9	186	64.5	63.4	2.4
892537 .		ID341	HRS	67.2	7.4	8.0	213	64.8	62.9	2.6
892538 SPILLMAN		WA7075	HRS	64.6	13.5	6.8	188	67.5	64.5	3.7
892539 COPPER		PI502644	HRS	65.7	11.0	8.7	202	65.6	64.9	3.1
				65.8	11.2	14.8	315	66.9	66.2	4.0
892540 .		WA7668	HRS	64.3	5.6	9.4	161	62.5	63.0	2.4

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PNW COLLABORATIVE STUDY

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ID, WA

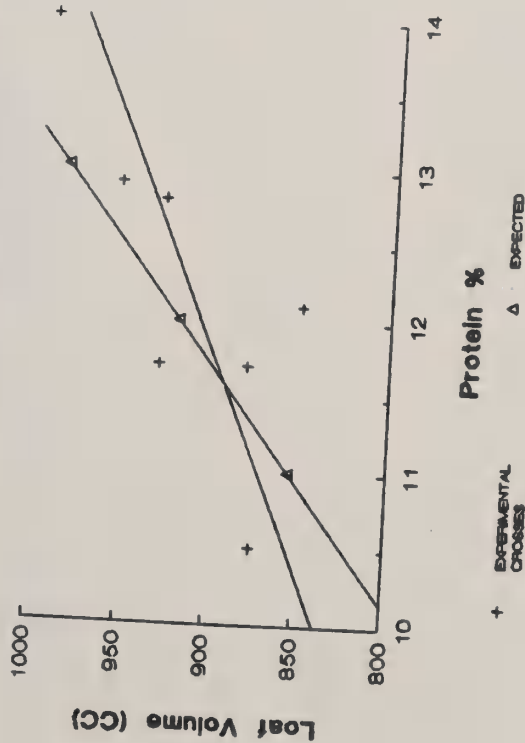
LABNUM	VARIETY	IDNO	CLASS	LVOL	LVOLC 4/	BCRGR	CODI	CODIC 4/	TGS	CAVOL
892530 DAWS										
892531 .		C1017419	SMW				8.60	8.36	6	1250
892532 PENEHAWA		WA7526	CLUB				9.66	9.45	8	1270
892533 .		WA6920	SWS				9.06	8.88	7	1265
892534 WESTON		WA7497	SWS				9.24	9.11	8	1235
		C1017727	HRW	930	818	3				
892535 SURVIVOR										
892536 PONDERA		P1509503	HRW	850	782	4				
892537 .		ID341	HRS	955	837	2				
892538 SPILLMAN		WA7075	HRS	995	809	2				
892539 COPPER		P1502644	HRS	930	887	3				
			HRS	880	837	4				
892540 .		WA7668	HRS	875	906	4				

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ID, WA

LABNUM	VARIETY	IDNO	CLASS	SCSOR	WTIN	NOSCOR	MTYPE	RMKS
892530 DAW'S								
892531		CI017419	SWW	68.0	318	70	3L	
892532 PENEWAVA		WA7526	CLUB	70.0	344	68	1M	Q-NOSCOR
892533		WA6920	SWS	68.0	350	78	3M	
892534 WESTON		WA7497	SWS	70.0	340	72	3M	Q-CAVOL,P-NOSCOR
		CI017727	HRW				2H	
892535 SURVIVOR								
892536 PONDERA		PI509503	HRW				2H	Q-BABS,P-LVOL,Q-S-BCRGR
892537			HRS				3H	
892538 SPILLMAN		ID341	HRS				3H	Q-LVOL
892539 COPPER		WA7075	HRS				3H	
		PI502644	HRS				4H	Q-LVOL,Q-S-BCRGR
892540		WA7668	HRS				3H	P-FPROT,Q-BABS,Q-MTIME,Q-S-BCRGR

LOAF VOLUME VS PROTEIN



COMMENTS: These samples represent advanced lines which are candidates for release. Soft White Winter Selections (892530) and White Club Selection (892531) were grown at Pullman, WA. Soft White Spring Selections (892532 and 892533) were a 50-50 composite grown at Royal Slope and Pullman, WA. Hard Red Winter Selections (892534 and 892535) were a 50-50 composite grown at Preston and Tetonia, ID. Hard Red Spring Selections (892536 and 892537) were a composite grown in Idaho from the following locations (percentages are listed): Tetonia (10%), Aberdeen (30%), Twin Falls (30%) and Parma (30%). Hard Red Spring Selections (892538-2540) were a 50-50 composite grown at Royal Slope and Pullman, WA. One- two bushels were milled on a Miag Multimat (Pilot Mill) and sub-samples of the flour were sent to 17 industry laboratories for their evaluation. These cooperators represent major foreign and domestic users of PNW wheat. Results from the individual collaborators are summarized in the project report. See "Remarks" for our evaluation of weaknesses and major deficiencies.

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		C.F. KONZAK									
		WA									
LABNUM	VARIETY	IDNO	CLASS	TWT	FYELD	FASH 1/	MSCOR	FPROT 1/	FHRD	MABSC 3/	
892545	--ROYAL SLOPE--										
892546	SPILLMAN	WA7668	HRS	62.7	72.0	0.40	86.8	10.1	84	62.2	
892547	--WALLA WALLA--	PI506350	HRS	62.9	70.8	0.37	87.0	11.2	85	63.2	
892548	SPILLMAN	WA7668	HRS	60.4	71.5	0.33	89.9	10.3	72	60.1	
892549	--CONNELL--	PI506350	HRS	60.0	68.1	0.33	86.2	11.1	75	61.9	
		WA7668	HRS	60.4	71.7	0.39	87.0	13.3	80	61.4	
892550	SPILLMAN	PI506350	HRS	59.9	70.5	0.40	85.2	13.6	86	63.3	
892551	--HARRINGTON--	WA7668	HRS	57.0	69.3	0.37	85.6	12.8	73	62.4	
892552	SPILLMAN	PI506350	HRS	58.7	69.2	0.38	84.9	11.8	81	62.2	
892553	--DAVENPORT--	WA7668	HRS	55.9	69.0	0.39	84.0	14.3	71	62.7	
892554	SPILLMAN	PI506350	HRS	56.5	67.9	0.36	84.6	14.4	80	64.4	
892555	--POWEROY--										
892556	SPILLMAN	WA7668	HRS	60.2	72.4	0.31	91.9	12.0	75	61.0	
892557	--LIND--	PI506350	HRS	59.5	70.3	0.32	89.1	12.6	81	62.6	
892558	SPILLMAN	WA7668	HRS	59.6	70.8	0.34	88.6	13.2	78	62.8	
		PI506350	HRS	59.2	70.5	0.39	85.8	13.4	79	62.7	

1/ Observed values

1/ Observed values corrected to 14% moisture basis.

3/ Absorption at 14% moisture corrected to 12% protein.

4/ Observed values corrected to 12% protein.

5/ Particularly promising overall quality characteristics.

6/ Promising overall quality characteristics.

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PULLMAN, WA.

SPRING LINES (WA7668).

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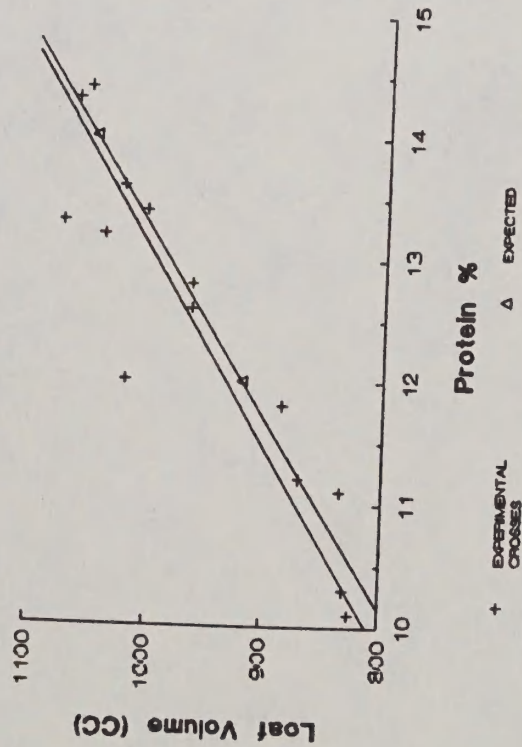
WA										C.F. KONZAK		
LABNUM	VARIETY	IDNO	CLASS	MTYPE	BABS 1/	BABSC 3/	MTIME	LVOL	LVOLC 4/	BCRGR		
892545	--ROYAL SLOPE--											
892546	SPILLMAN	WA7668	HRS	3M	59.5	61.4	1.9	825	943	4		
892547	--WALLA WALLA--	PI506350	HRS	3H	62.6	63.4	2.6	870	920	4		
892548	SPILLMAN	WA7668	HRS	4M	58.6	60.3	2.8	830	935	4		
892549	--CONNELL--	PI506350	HRS	3H	61.2	62.1	3.6	835	891	5		
		WA7668	HRS	2H	62.9	61.6	2.4	1075	994	3		
892550	SPILLMAN	PI506350	HRS	3H	65.1	63.5	4.1	1025	926	4		
892551	--HARRINGTON--	WA7668	HRS	4H	63.4	62.6	3.1	965	915	3		
892552	SPILLMAN	PI506350	HRS	5H	62.2	62.4	4.3	885	897	4		
892553	--DAVENPORT--	WA7668	HRS	2H	65.2	62.9	2.5	1065	927	3		
892554	SPILLMAN	PI506350	HRS	5H	67.0	64.6	4.3	1055	906	2		
892555	--POWER--											
892556	SPILLMAN	WA7668	HRS	2H	61.2	61.2	2.4	1020	1020	3		
892557	--LIND--	PI506350	HRS	3H	63.4	62.8	3.3	965	928	2		
892558	SPILLMAN	WA7668	HRS	2H	64.2	63.0	2.3	1040	966	2		
		PI506350	HRS	4H	64.3	62.9	4.1	1005	918	2		

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WA
C.F. KONZAK

LABNUM	VARIETY	IDNO	CLASS	RMKS
892545	--ROYAL SLOPE--			
892546	SPILLMAN	WA7668	HRS	P-MTIME
892547	--WALLA WALLA--	PI506350	HRS	
892548	SPILLMAN	WA7668	HRS	
892549	--CONNELL--	PI506350	HRS	
		WA7668	HRS	Q-MTIME
892550	SPILLMAN			
892551	--HARRINGTON--	PI506350	HRS	
892552	SPILLMAN	WA7668	HRS	Q-TWT
892553	--DAVENPORT--	PI506350	HRS	
892554	SPILLMAN	WA7668	HRS	Q-TWT
		PI506350	HRS	
892555	--POMEROY--			
892556	SPILLMAN	WA7668	HRS	Q-MTIME
892557	--LIND--	PI506350	HRS	
892558	SPILLMAN	WA7668	HRS	Q-MTIME
		PI506350	HRS	

LOAF VOLUME VS PROTEIN



COMMENTS: This nursery averaged 12% flour protein content. Spring line (WA7668) was grown at seven locations along with the check variety - Spillman. At nearly all locations, WA7668 had higher mean flour yield (about 1.5%) and better milling scores. It also had larger loaf volume (45 cc) and crumb grain equal to or slightly better than Spillman. The loaf volume was equal to or exceeded that expected at the 12% flour protein level. WA7668 was questionable at some locations in dough mixing time and test weight. See "Remarks" and plot of Loaf Volume vs Flour Protein.

